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#### Vorwort

Vom Jahrgang 1916 an ist der fundamentale Meridian, auf den alle Angaben des Jahrbuchs bezogen sind, der Meridian von Greenwich.

Die Zeit ist vom Jahrgang 1925 an in Weltzeit, d. i. Bürgerliche Zeit Greenwich, ausgedrückt (siehe Erläuterungen).

Die Grundlagen des Berliner Astronomischen Jahrbuchs bilden:

Für die Sonne und die großen Planeten:

Die Tafeln von Newcomb und (für Jupiter und Saturn) von Hill, enthalten in:

Astronomical Papers of the American Ephemeris,

Vol. VI, Part I-IV: Tables of the four inner planets,

Vol. VII, Part I-IV: Tables of Jupiter, Saturn,

Uranus, Neptune.

Als Sonnenhalbmesser in der mittleren Entfernung ist 16' 1"50 angenommen; dagegen liegt der Berechnung der Finsternisse der von Auwers in A. N., Bd. 128 gegebene Wert 15' 59".63 zugrunde.

Für den Mond:

Tables of the Motion of the Moon by Ernest W. Brown. Der geozentrische Mondhalbmesser  $r_{\mathbb{C}}$  ist aus der Äquatorial-Horizontalparallaxe  $p_{\mathbb{C}}$  gerechnet nach der Formel

$$r_{\ell} = 0.272469 p_{\ell} + 1.50,$$

für die Finsternisse nach sin  $r_{\mathbb{Q}} = 0.272274 \sin p_{\mathbb{Q}}$ .

Als Neigung des Mondäquators gegen die Ekliptik ist nach F. H a y n (A. N. Bd. 199, 263) angenommen:  $J = 1^{\circ} 32' 20''$ .

Für die Fixsterne:

Dritter Fundamentalkatalog des Berliner Astronomischen Jahrbuchs (Veröffentlichungen des Astronomischen Recheninstituts zu Berlin-Dahlem Nr. 54 und Abhandlungen der Preußischen Akademie der Wissenschaften Jahrgang 1938. Phys.math. Klasse. Nr. 3).

Die Sterngrößen und Sternspektren sind dem »Henry Draper Catalogue (Harvard Annals, vol. 91—99)« entnommen. Als Werte der fundamentalen Reduktionsgrößen sind angenommen:

Die Präzessions-Größen nach S. Newcomb (vgl. H. Andoyer, Bull. Astr. Bd. 28, S. 67)

Die Nutations-Konstante . . . . 9"21

Die Nutations-Größen nach S. Newcomb (Bull. Astr. Bd. 15, S. 241)

Die Aberrations-Konstante . . . . 20"47

Die Sonnen-Parallaxe . . . . . 8"80

Die Abplattung der Erde . . . . 1:297

Für die Satelliten:

Die Angaben über die 4 älteren Jupitertrabanten beruhen auf den Tafeln von R. A. Sampson (Tables of the four great Satellites of Jupiter. London 1910), die Angaben über die 8 älteren Saturnsatelliten auf den von H. und G. Struve sowie von J. Woltjer ermittelten Werten (Näheres s. Erläuterungen).

In allen Ephemeriden der Sonne, der Planeten und der Fixsterne sind die kurzperiodischen, von der Mondlänge abhängigen Nutationsglieder weggelassen; doch bietet das Jahrbuch die Möglichkeit, auch diese weggelassenen Glieder zu berücksichtigen (s. Erläuterungen).

Der Inhalt des Jahrbuchs hat gegen das Vorjahr einige Änderungen erfahren. Es mußten wegfallen die Ephemeride von Pluto sowie die Angaben über Sternbedeckungen. Auch die Ephemeride des Mondkraters Mösting A kann in diesem Jahrgang noch nicht gegeben werden.

Bezüglich der Zahlengrundlagen sei auf die im Berliner Jahrbuch für 1916 gegebene Darstellung der »Grundbegriffe der Sphärischen Astronomie« hingewiesen.

Ein Teil der Angaben wurde seitens des Nautical Almanac Office, London, zur Verfügung gestellt.

Die Leitung der Arbeiten am Astronomischen Jahrbuch für 1947 lag in den Händen von Prof. Dr. Kohl; an der Bearbeitung der verschiedenen Teile beteiligten sich außerdem die Herren Dr. Gondolatsch, Dr. Müller, Dr. Baehr, Dr. Rabe und mehrere Hilfsarbeiter.

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# Zeit- und Festrechnung 1947

Das Jahr 1947 entspricht dem

Jahr 6660 der Julianischen Periode und dem Jahr 7455—7456 der Byzantinischen Ära.

#### Gregorianischer Kalender

Goldene Zahl .									33		419	17		6							10
Epakte	. /		16		1			Ē		15	9	1							178	. 10	VIII
Sonnenzirkel .				4	507		-		7							-			3 -		24
Sonntagsbuchstal																					E
Septuagesima .	7			١.											1			1		2. I	Febr.
Aschermittwoch		4	36		8			-		-			- 11	-	- 1	. •	+		10	19. 1	Febr.
I. Quatember .																				26. I	Febr.
Ostersonntag .																					April
Himmelfahrt																					
Pfingstsonntag																					
II. Quatember.																					-
III. Quatember		74				8.			100					-				5		17. 5	Sept.
I. Advent																					-
IV. Quatember.																					1

## Dimensionen der Erde

#### a) Nach Bessel (1841)

Große Halbachse  $a = 6\,377\,397.155\,$  m  $\log a = 6.804\,6434\,637$ Kleine Halbachse  $b = 6\,356\,078.963\,$  m  $\log b = 6.803\,1892\,839$ Abplattung  $a = 1:\,299.152\,8129$   $\log a = 7.524\,1069\,092-10$ Meridianquadrant  $= 10\,000\,855.76\,$  m

Die Maßeinheit der Länge ist das legale Meter

#### b) Nach Hayford (1909)

Große Halbachse  $\alpha = 6\,378\,388\,\,\mathrm{m}$   $\log \alpha = 6.804\,7109\,340$  Kleine Halbachse  $b = 6\,356\,911.946\,\,\mathrm{m}$   $\log b = 6.803\,2461\,957$  Abplattung  $\alpha = 1\colon 297$   $\log \alpha = 7.527\,2435\,507$ —10 Meridianquadrant  $= 10\,002\,288.30\,\,\mathrm{m}$ 

Die Maßeinheit der Länge ist das internationale Meter. Ein internationales Meter = 1,000 0133 legales Meter.

Normalwert für die Schwerebeschleunigung im Meeresniveau:  $\Upsilon_0 = 978.030 \ (1 + 0.005302 \cdot \sin^2 \Phi - 0.000007 \cdot \sin^2 2 \Phi) \ \text{cm. sec}^{-2}$ . (Helmert 1901)  $\Upsilon_0 = 978.0490 \ (1 + 0.0052884 \cdot \sin^2 \Phi - 0.0000059 \cdot \sin^2 2 \Phi) \ \text{cm. sec}^{-2}$ . (Cassinis 1930)

Masse der Erde: 5.974 · 10<sup>27</sup> g Masse der Sonne: 1.983 · 10<sup>83</sup> g Radius der Sonne: 695 300 km

Mittlere Entfernung Erde-Sonne: 149 504 200 km

Lichtzeit für die mittlere Entfernung Erde—Sonne: 498°,72 (mit Lichtgeschwindigkeit 299 774 km/sec.)

#### Astronomische Konstanten

Allgemeine Präzession $\psi$ = 50.2564 + 0.000 222 t
Präzession in Rektaszension $m = 3.07234 + 0.000 \text{ o} 186 \text{ t}$
Präzession in Deklination $n = 20.0468 - 0.000085 t$
Mittlere Schiefe der Ekliptik $\epsilon = 23^{\circ}  27'  8.26' - 0.4684  t$ Länge d. aufsteig. Knotens d. bewegl. a. d. festen Ekliptik $\Pi = 173^{\circ}  57'  3.6' + 32.862  t$
Winkel zwischen fester u. bewegl. Ekliptik $\pi = 0.4711$ — 0.000 007 t
Länge des tropischen Jahres
Länge des synodischen Monats
Länge d. mittl. Sterntages = 23h 56m 4 soo1 mittl. Zeit=0.997 269 57 mittl. Sonnentag
Äquatoreal-Horizontalparallaxe des Mondes
I Parsek = 206 264.806 Astr. Einh. = 3.2598 Lichtjahre = 30.84 · 10 <sup>12</sup> km

## Elemente der Planetenbahnen für 1947 Jan. 0, 0h Weltzeit

	8	i	ũ	e
Merkur	47.703	7.004	76.630	0.205 624
Venus	76.203	3.394	130.825	0.006 799
Erde	-		102.029	0.016 732
Mars	49.149	1.850	335.083	0.093 356
Jupiter	99.918	1.306	13.478	0.048 412
Saturn	113.200	2.491	92.018	0.055 730
Uranus	73.712	0.773	172.247	0.046 332
Neptun	131.198	1.775	47.398	0.009 000
Pluto	109.633	17.144	223.175	0.248 644
	a	L	$n_{sid}$ .	$P_{sid.}$
	a			a d
Merkur	a 0.387 099	L 225.876	4.092 34	a d o 87.9693
Merkur		225.876 124.793	6 4.092 34 1.602 13	a d
	0.387 099 0.723 332 1.000 000	225.876 124.793 98.826	0 4.092 34 1.602 13 0.985 61	a d o 87.9693 o 224.7008 I 0.0142
Venus	0.387 099 0.723 332	225.876 124.793	6 4.092 34 1.602 13	a d o 87.9693 o 224.7008
Venus	0.387 099 0.723 332 1.000 000	225.876 124.793 98.826	4.092 34 1.602 13 0.985 61 0.524 03 0.083 09	a d 0 87.9693 0 224.7008 1 0.0142 1 321.7375 11 314.925
Venus	0.387 099 0.723 332 1.000 000 1.523 688 5.202 561 9.554 747	225.876 124.793 98.826 289.691 225.007 121.573	4.092 34 1.602 13 0.985 61 0.524 03 0.083 09 0.033 46	a d o 87.9693 o 224.7008 I 0.0142 I 321.7375 II 314.925 29 167.21
Venus	0.387 099 0.723 332 1.000 000 1.523 688 5.202 561	225.876 124.793 98.826 289.691 225.007 121.573 86.219	0.092 34 1.602 13 0.985 61 0.524 03 0.083 09 0.033 46 0.011 73	a d o 87.9693 o 224.7008 I 0.0142 I 321.7375 II 314.925 29 167.21 84 8.11
Venus.          Erde          Mars          Jupiter          Saturn	0.387 099 0.723 332 1.000 000 1.523 688 5.202 561 9.554 747	225.876 124.793 98.826 289.691 225.007 121.573	4.092 34 1.602 13 0.985 61 0.524 03 0.083 09 0.033 46	a d o 87.9693 o 224.7008 I 0.0142 I 321.7375 II 314.925 29 167.21

Merkur bis Mars nach Newcomb, Jupiter bis Neptun nach Leverrier und Gaillot, Pluto nach Bower. Für Pluto sind baryzentrische Elemente bezogen auf Ekliptik und mittleres Äquinoktium 1950.0 gegeben.

#### Astronomische Zeichen und Abkürzungen

Bezeichnung	Adspekten
der	of Konjunktion
Wochentage	☐ Quadratur
⊙ Sonntag	& Opposition
( Montag	
đ Dienstag	Mondphasen
₽ Mittwoch	<ul> <li>Neumond</li> </ul>
24 Donnerstag	D Erstes Viertel
♀ Freitag	○ Vollmond
† Sonnabend	( Letztes Viertel
Aufsteigender	} Knoten

### Zeichen des Tierkreises und der Himmelskörper

Υ	Widder		3		0	Grad		
8	Stier	3			30	<b>»</b>	0	Sonne
П	Zwillinge .		17		60	*	(	Mond
9	Krebs		20		90	*	ğ	Merkur
8	Löwe	£ .	57	100	120	*	2	Venus
пр	Jungfrau	8			150	*	ð	Erde
4	Waage		400		180	*	ਰ	Mars
η	Skorpion .			3	210	<b>»</b>	24	Jupiter
×	Schütze			Si	240	*	ħ	Saturn
8	Steinbock .				270	*	6	Uranus
***	Wassermann	8		38	300	»	Ψ	Neptun
H	Fische		8	1	330	*		

# Sonne, Mond, Große Planeten 1947

		Se.		О <sup>ћ</sup> W е	ltzeit		
Tag		Wochentag	Zeitgleichung Wahre Zeit <i>minus</i> Mittlere Zeit	Scheinbare Rektaszension	Scheinbare Deklination	Halbe Durch- gangs Dauer StZt.	Halb- messer
1947	7	24 ( ) ( )	m s	h m s		s	
Jan.	0	Di	- 2 30 47 S	18 37 55.41 m s	-23 9 38.4	71.12	16 17.83
	1	Mi	3 8.28	18 42 20.78 4 25.37	23 5 24.0 4 14.4	71.08	16 17.85
	2	Do	3 36.77 28.15	18 46 45.82 4 25.04	23 O 41.8 4 42.2 5 9.7	71.04	16 17.87
200	3	Fr	4 4.92 27.78	18 51 10.53	22 55 32.1 5 37.0	71.00	16 17.87
	4	Sa	4 32.70 27.39	18 55 34.87	22 49 55.1 6 4.2	70.95	16 17.88
	5	So	5 0.09 26.96	18 59 58.82 4 23.52	22 43 50.9 6 31.3	70.89	16 17.88
	6	Mo	- t 27 Of	19 4 22.34	-22 37 10 6	70.83	16 17.87
	7	Di	5 53.57 26.05	19 8 45.41 4 23.07	22 30 21.6	70.77	í6 17.85
	8	Mi	6 19.62 25.56	19 13 8.02 4 22.61	22 22 56.9 7 24.7	70.71	16 17.83
SERVICE	9	Do	6 45.18 25.05	19 17 30.14 4 21.61	22 15 5.8	70.64	16 17.80
3.34	10	Fr	7 10.23	19 21 51.75	22 0 48.0	70.57	16 17.76
	ΙΙ	Sa	7 34.76	19 26 12.84	21 58 5.3 9 8.9	70.49	16 17.72
	12	So	- 7 58.73	19 30 33.37	-21 48 56.4	70.42	16 17.68
40	13	Mo	8 22.14 22.81	19 34 53.33 4 19.37	21 39 22.1 9 34.3 9 59.6	70.33	16 17.62
	14	Di	8 44.95	19 39 12.70 4 18.76	21 29 22.5	70.25	16 17.56
17.0	15	Mi	9 7.15	19 43 31.46	21 18 58,1	70.16	16 17.50
	16	Do	9 28.71	19 47 49.58	21 8 9.0	70.07	16 17.43
	17	Fr	9 49.62	19 52 7.04 4 16.79	20 56 55.6 11 37.4	69.97	16 17.36
122	18	Sa	10 9.85 19.54	19 56 23.83	-20 45 18.2 <sub>12 1.1</sub>	69.88	16 17.28
	19	So	10 29.39	20 0 39.93 4 15.39	20 33 17.1	69.78	16 17.20
	20	Mo	10 48.22	20 4 55.32	20 20 52.6	69,68	16 17.11
	21	Di	11 6.32	20 9 9.97	20 8 5.0	69.58	16 17.03
	22	Mi	11 23.07 16.59	20 13 23.88	19 54 54.8	69.47	16 16.94
	23	Do	11 40.26	20 17 37.03 4 12.37	19 41 22.3	69.37	16 16.85
	24	Fr	11 56.08 <sub>15-03</sub>	20 21 49.40	-19 27 27.8 <sub>14 16.0</sub>	69.26	16 16.75
	25	Sa	12 11.11	20 26 0.99	19 13 11.8	69.15	16 16.64
	26	So	12 25.33	20 30 11.77	18 58 34.5	69.04	16 16.54
	27	Mo	12 38.74	20 34 21.74 4 9.15	18 43 36.4 15 18.5	68,92	16 16.43
	28	Di	12 51.34 11.76	20 38 30.89 4 8.32	18 28 17.9 15 38.5	68.81	16 16.31 16 16.19
	29	Mi	13 3.10	20 42 39.21 4 7.49	18 12 39.4 15 58.1	115000	1
	30	Do	13 14.03 <sub>10.09</sub>	20 46 46.70 4 6.65	-17 56 41.3 16 17.3	68.59	16 16.07
77.1	31	Fr	13 24.12	20 50 53.35	17 40 24.0	68.47	16 15.94
Febr.	1	Sa	13 33.37 8.41	20 54 59.15	17 23 48.0	68.36	16 15.81
	2	So	13 41.78 7.58	20 59 4.12	17 6 53.5 17 12-4	68.24	16 15.68
	3	Mo Di	13 49.36 6.75 13 56.11	21 3 0.25 4 3.30	16 49 41.1 17 29.9 16 32 11.2	68.12 68.01	16 15.54 16 15.39
	4	1000	5.92	21 7 11.55 4 2.48	17.47.2	540000	
	5	Mi	-14 2.03 <sub>5.10</sub>	21 11 14.030 4 1.66	-16 14 24.0 <sub>18 3.9</sub>	67.89	16 15.24
	6	Do	14 7.13	21 15 15.69	15 50 20.1		
	7	Fr	14 11.43	21 19 16.55 4 0.05	15 37 59.8 18 36.3	67.67	16 14.91
	8	Sa	14 14.93	21 23 16.60 3 59.27	15 19 23.5 18 51.9	67.55	16 14.74
10000	9	So Mo	14 17.65 -14 19.58	21 27 15.87 3 58.49 21 31 14.36	15 0 31.6 19 7.1 —14 41 24.5	67.44	16 14.57 16 14.39
11-68	10	1110	14 19.50	#1 31 14.30	14 41 24.5	97.33	10 14.39

			0 h	Weltzeit			Auf-	Unter-
Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp.   kurzp. Gl.   Gl.	Mittleres Äquinok 1947.0 Länge	tium Breite	R	$ ext{gang} \  ext{in} egin{cases} +50 \ 0 \end{cases}$	gang Breite Länge
1947	2432	h m s	in 0,001		in ",01		h m	h m
Jan. o	1.85.5	6 35 15.937	-960 <b>-</b> 5	278 43 14.8 61 9.1	-20	0.983 3007	7 59	16 7
I	186.5	6 39 12.496	957 -12	279 44 23.9 61 9.0	-I2	0.983 2802	7 59	16 8
2	187.5	6 43 9.054	954 -17	280 45 32.9	- 2	0.983 2649 96	7 59	16 9
3	188.5	6 47 5.613	950 -18	281 46 41.7 6T 8 F	+10	0.983 2553	7 59	16 10
. 4	189.5	6 51 2.171	947 -17	282 47 50.2	+23	0.983 2510	7 59	16 11
5	190.5	6 54 58.730	944 -111	283 48 58.4 61 7.9	+38	0.983 2541 89	7 58	16 12
6	191.5	6 58 55.288	-941 <b>-</b> 3	284 50 6 3	+52	0.983 2630	7 58	16 14
7	192.5	The second secon	939 + 5	285 51 14 1	+65	0.083 2785	7 58	16 15
8	193.5	The second secon	936+12	286 52 21 7 01 7.0	+76	0 083 3008 223	7 58	16 16
9	194.5	7 10 44.963	933+17	287 53 29.2 61 7.5	+85	0.983 3297	7 57	16 17
10	195.5	7 14 41.521	930+18	288 54 36.6	+91	0.983 3651 354	7 57	16 19
II	196.5	7 18 38.079	928+16	289 55 44.0 61 7.4	+93	0.983 4068 417	7 56	16 20
12	197.5	7 22 34.636	-925+10	200 56 51 3	+92	0.983 4544	7 56	16 21
13		7 26 31.194	923 + 4	201 57 58 5	+88	0 082 5077 533	7 55	16 23
14	199.5		920 - 2	202 50 5.7	+82	0 083 5664 507	7 54	16 24
15	DATE OF STREET	7 34 24.310	918 - 6	204 0 12 7	+74	0 083 6301 037	7 54	16 26
16	201.5	7 38 20.867	915 - 9	205 1 10 6 61 6.9	+64	0 083 6085	7 53	16 27
17	202.5	7 42 17.425	913 - 9	206 2 26 2	+52	0.083 7715	7 52	16 28
18	202 5	7 46 13.983	-911 <b>-</b> 7	297 3 32.6	+39	0.983 8488	7 51	16 30
19	The same of the same of	7 50 10.540	909 - 4	208 4 28 5 5.9	+27	0 002 0202	7 51 7 50	16 31
20	205.5		909 4	200 5 44 1	+15	0.084.0144 *53	7 49	16 33
21	206.5		905 + 4	300 6 49.1	+ 4	0.084 1046	7 48	16 35
22	207.5		903 + 7	301 7535	- 6	0.084 1074	7 47	16 36
23	208.5	8 5 56.769	901 + 9	302 8 57.3	-14	0.084 2037	7 46	16 38
24	209.5	8 9 53.326	<b>-</b> 900 + 9	202 10 0 2	-19	0.984 3936	7 45	16 39
25	210.5	8 13 49.883	898 + 7	304 11 24	-22	0 084 4071	7 44	16 41
26	211.5	8 17 46.440	897 + 3		-21	0.984 6041	7 43	16 43
27	212.5	8 21 42.997	895 - 3	01 0.2	-17	0.984 7148	7 42	16 44
28	213.5	8 25 39.553	894 - 9	207 14 2 7	-11	0.084 8203 1145	7 40	16 46
29	214.5	8 29 36,110	893 -14	208 IF 06 00 57-9	- 2	0.084 0470	7 39	16 48
30	215.5	8 33 32.666	-892 -18	. 00 50.0	+ 8	1220	11000	16 49
31	216.5		891 –17		+ 8	0.985 0707 0.985 1981	7 38	16 51
Febr. 1	and the second second	8 41 25.779	800 -12	311 17 46.5 60 54.0 311 17 46.5 60 52.6	+35	0.985 3303	7 37 7 35	16 53
2		8 45 22.335	889 - 7	212 18 20 1	+48	0.985 4676	distant of	16 55
3		8 49 18.891		312 18 39.1 60 51.4	+60	0 085 6103 1427	1 4%	16 56
4		8 53 15.447	888 + 9	313 19 30.5 60 50.0 314 20 20.5 60 48.8	+71	0.985 7586	7 31	16 58
	8 1-48	The State of the S		60 48.8		- 339	127 (23)	4 6 3
5 6	Mary Control of the Control	8 57 12.003	-887 + 15	315 21 9.3 60 47.5	+80	TENN	7 29	17 0
		9 1 8.559	907+17	1 110 21 50.0	+86	7655	7 28	17 1
7 8		9 5 5.114	886 170	317 22 43.2 60 45.2	+89	7772	7 26	17 3
9		9 9 1.670 9 12 58.225	$000 \pm 12$	1 110 2 1 20 1	+85	1765	7 25	17 5
10		9 16 54.781	-886	319 24 12.5 60 43.1 320 24 55.6	100000000000000000000000000000000000000	1015	7 23	17 7
100	1 220.5	19 10 54./01	1-000 0	320 24 55.0	+79	0.980 /0/0	7 21	17 8

	ag g		0 h W e	ltzeit		776-
Tag	Wochentag	Zeitgleichung Wahre Zeit <i>minus</i> Mittlere Zeit	Scheinbare Rektaszension	Scheinbare Deklination	Halbe Durch- gangs- Dauer StZt.	Halb- messer
1947	9.00	m s	h m s	9 , 9	s	
Febr. 10	Mo	-14 19.58 s	21 31 14.36 <sup>m s</sup> 3 57.73	-14 41 24.5 19 21.9	67.33	16 14.39
II	Di	14 20.75	21 35 12.09 3 56.96	14 22 2.6	67.22	16 14.21
12	Mi	14 21.16	21 39 9.05	14 2 26.3	67.11	16 14,03
13	Do	14 20.82	21 43 5.27	13.42 36.0	67.00	16 13.83
14	Fr	14 19.74	21 47 0.74	13 22 32.0	66.89	16 13.63
15	Sa	14 17.92	21 50 55.48	13 2 14.9 20 29.8	66.79	16 13.43
16	So	-14 15.38 3.25	21 54 49.50	-12 41 45.1 <sub>20 42.2</sub>	66,68	16 13.24
17	Mo	14 12.13	21 58 42.80	12 21 2.9	66,58	16 13.03
18	Di	14 8.18	22 2 35.40 3 51.92	12 0 8.7	66,48	16 12.82
19 20	Mi Do	14 3.54 13 58.22 5.32	22   6 27.32 3 51.23 22   10   18.55	11 39 3.1 11 17 46.3	66,38 66,28	16 12.61
21	Fr	13 52.22 6.00	22 14 9.11 3 50.56	10 56 18.9	66.18	16 12,48
		0.05	3 49.90	21 37.5	A 100 TO	
22	Sa So	-13 45.57 7.31	22 17 59.01 22 21 48.26 3 49.25	-10 34 41.4 10 12 54.0	66,00	16 11.97
23	Mo	13 38.26 7.94 13 30.32	22 25 36.87 3 48.61	10 12 54.0 21 56.9 9 50 57.1	65.91	16 11.75
25	Di	13 21.76 8.56	22 29 24.86 3 47.99	0 28 51 4 22 5.7	65.82	16 11.31
26	Mi	13 12 50 9.17	22 33 12.24 3 47.38	9 6 37.2	65.74	16 11.09
27	Do	13 2.81 9.78	22 36 50 02 3 40.78	8 44 14.9	65.65	16 10.86
28	Fr	—12 52.46	22 40 45.22	— 8 21 45.0	65.57	16 10.63
März 1	Sa	12 41.54	22 44 30.85	7 59 7.8 22 37.2	65.49	16 10.41
2	So	12 30.08	22 48 15 04 3 45.09	7 36 23.8 22 44.0	65.41	16 10.17
3	Mo	12 18.08	22 52 0.50 3 44.56	7 13 33.3 22 56.5	65.34	16 9.94
4	Di	12 5.58	22 55 44.55	6 50 36.8	65.27	16 9.69
5	Mi	11 52.59	22 59 28,12 3 43.10	6 27 34.6	65.20	16 9.46
6	Do	-II 39.14 <sub>13.88</sub>	23 3 11.22	- 6 4 27.2 <sub>23 12.4</sub>	65.13	16 9.21
7	Fr	11 25.26	23 6 53.89	5 41 14.8	65.07	16 8,96
8	Sa	11 10.90	23 10 36.15	5 17 57.9 23 21.2	65.01	16 8.71
9	So	10 56.27	23 14 18.01	4 54 36.7 23 25.0	64.96	16 8.45
11	Mo Di	10 41.21	23 17 59.50 23 21 40.65 3 41.15	4 31 11.7 4 7 43.2	64.90 64.85	16 8.19
	AL 30-1	15.73	3 40.82	23 31.7	100 m	
12	Mi Do	—IO IO.07 16.03	23 25 21.47	- 3 44 II.5	64.80	16 7.66
13	Fr	9 54.04 16.31	23 29 2.00 3 40.24 23 32 42.24	3 20 37. I 2 3 36.9 2 57 0,2	64.76 64.72	16 7.40
15	Sa	9 37.73 16.57 9 21.16	23 36 22.22 3 39.98	2 33 21.3	64.68	16 6.86
16	So	0 4.35	23 40 1.96 3 39.74	2 9 40 8	64.64	16 6.59
17	Мо	8 47 32	23 43 41.40 3 39.53	1 45 58 0 23 41.9	64.61	16 6.31
18	Di	- 8 30.09	23 47 20.81	— I 22 I6.0	64.58	16 6.04
19	M:	8 12.68 17.41	22 50 50 05 3 39.14	0 58 32.6 23 43.4	64.55	16 5.77
20	Do	7 55 10 17.58	22 54 28 02 3 30.90	0 34 49.0	64.52	16 5.49
21	Fr	7 37.38 17.72	22 58 17 76 3 30.03	- OII 5.6 23 43.4	64.50	16 5.22
22	Sa	7 19.53 17.85	O I 56.46 3 38.70	+ 0 12 37.3	64.48	16 4.94
23	So	- 7 I.57 17.96	0 5 35.06	+ 0 36 19.2 23 42.9	64.47	16 4.67

San S			0 h	Weltzeit			Auf-	Unter-
Tag	Julian.		Nutation in AR.	Mittleres Äquinok	tium		gang	gang
	Zeit	Sternzeit	langp.   kurzp.	1947.0 Länge	Breite	R	ימוו	)° Breite ) <sup>h</sup> Länge
1947	2432	h m s	s in 0.001		in 0.01		h m	h m
Febr. 10	226.5	9 16 54.781	-886 o	320 24 55.6	+79	0.986 7670 1863	7 21	17 8
II	227.5	9 20 51.336	-887 - 5	321 25 37.6 60 40.9	+70	0.986 9533	7 19	17 10
12	228.5	9 24 47.891	887 - 9	322 26 18.5	+60	0.987 1439	7 18	17 12
13	229.5	9 28 44.446	887 - 9	323 26 58.3	+48	0.987 3387	7 16	17 14
14	230.5	9 32 41.001	888 – 8	324 27 36.9 60 37.5	+36	0.987 5372	7 14	17 15
15	231.5	9 36 37.556	888 — 5	325 28 14.4 60 36.3	+23	0.987 7392 2052	7 12	17 17
16	232.5	9 40 34.111	-889 - I	326 28 50.7 60 35.0	+11	0.987 9444 2081	7 11	17 19
17	233.5	9 44 30.665	889 + 3	327 29 25.7	0	0.988 1525	7 9	17 20
18	234.5	9 48 27.220	890+7	328 29 59.4	- 9	0.988 3634	7 7	17 22
19	235.5	9 52 23.775	891 + 9	329 30 31.7 60 30.0	-17	0.988 5768	7 5	17 24
20	236.5	9 56 20.329	892+10	00 20.3	-23	0.988 7923 2177	7 3	17 26
21	237.5	10 016.883	893 + 9	331 31 31.9 60 27.8	-27	0.989 0100 2196	7 I	17 27
22	238.5	10 4 13.438	THE RESERVE AND ADDRESS OF THE PARTY OF THE	332 31 59.7 60 26.1	-28	0.989 2296	6 59	17 29
23	239.5	10 8 9.992	895 o	333 32 25.8	-25	0.989 4511	6 57.	17 31
24	240.5	10 12 6.546	.896 – 6	334 32 50.1	-19	0.989 0740	6 55	17 32
25	241.5	10 16 3,100	898 –12	335 33 12.5	-11	0.989 8999	6 53	17 34
26	242.5	10 19 59.654	899 –16	60 18.6	- I	0.990 1273	6 52	17 36
27	243.5	10 23 56.208	900 -17	337 33 51.7 60 16.5	+11	0.990 3569	6 50	17 37
28	244.5	10 27 52.762	-902 -14	338 34 8.2	+24	0.990 5889 2346	6 48	17 39
März 1	245.5	10 31 49.315	903 – 9	339 34 22.7	+38	0.990 8235	6 45	17 41
2	246.5	10 35 45.869	905 - 1	340 34 35.1	+50	0.991 0611	6 43	17 42
3	247.5 248.5	10 39 42.423	907 + 6	341 34 45.4 60 8.3	+61	0.991 3018	6 41	17 44
4 5	249,5	10 43 38.976	909 + 12 910 + 16	342 34 53.7 60 6.2	+70	0.991 5460 2477	6 39	17 46
10 May 12 12 12 12 12 12 12 12 12 12 12 12 12	158 Y 197	10 47 35.530		343 34 59.9 60 4.2	+75	0.991 7937 2515	6 37	17 47
6	250.5	10 51 32.083	-912 + 16	344 35 4.1 60 2.3	+78	0.992 0452	6 35	17 49
7	251.5	10 55 28.637	914+12	345 35 6.4 60 0.3	+78	0,992 3005	6 33	17 51
8	252.5 253.5	10 59 25.190	916+ 7	346 35 6.7 59 58.6	+75	0.992 5595 2626	6 31	17 52
9	254.5	11 3 21.744 11 7 18.297	918 + 1 920 - 4	347 35 5.3 59 56.8 348 35 2.1	+69	0.992 8221	6 29	17 54
11	255.5	11 11 14.850	920 - 4 $922 - 8$	348 35 2.1 349 34 57.2	+51	0.993 0880 2690 0.993 3570 2718	6 27	17 56
	(STATE		STATE STATE	59 53-3		Chicago State of 10	20052	17 57
12	256.5	11 15 11.403	-92510	350 34 50.5 59 51.7	+38	0.993 6288	6 22	17 59
13	257.5 258.5	11 19 7.957	927 - 9	351 34 42.2 59 50.0	+25	0.993 9031 2764	6 20	18 0
14		11 23 4.510	929 - 6	352 34 32.2 59 48.2	+13	0.994 1795 2783	6 18	18 2
16		11 30 57.616	931 - 2	251 21 70 59 40.0		0.994 4578 2798	6 14	Blocked of the
17		11 34 54.169			-2I	0 005 0186	6 12	18 5
10 10 10 10 10	STATE OF THE PARTY	CONTRACTOR OF THE PARTY OF THE	CONTROL CONTROL	39 43 • 4	1.78.3	2020	100	100000
18		11 38 50.722			-30	0.995 3006	6 9	18 8
19 20	264	11 42 47.276	940 + 10	35/ 33 10.2	-36 -30	0.995 5832	6 7	18 10
21	265 5	11 50 40.382	942 + 9	358 32 55.7 59 39.5 359 32 33.4 59 37.7	-39 -39	0.995 8662 2830 0.996 1492	6 5	18 12
22		11 54 36,935		0 20 0 7 59 35.7	-36 -36	0 006 4320 2020	6 3 6 I	18 15
23	267.5	11 58 33.488	-949 - 4			0.996 7145	5, 59	18 16
	18 18 18 18 18 18 18 18 18 18 18 18 18 1	3- 33.4301	7			73V A +43	3 39 1	Mark Cont.

( <u>( ( ) ) ) </u>		45		Donne 1746			
		ag		Oh We	ltzeit		
Tag		Wochentag	Zeitgleichung Wahre Zeit <i>minus</i> Mittlere Zeit	Scheinbare Rektaszension	Scheinbare Deklination	Halbe Durch- gangs- Dauer StZt.	Halb- messer
194;	7	63.7	m s	h m s		5	
März	23	So	- 7 1.57 s	o 5 35.06 m s	+ 0 36 19.2	64.47	15 4.67
	24	Mo	6 43.52	0 9 13.50	0 59 59.8	64.46	15 4.39
	25	Di	6 25.39	0 12 51.98	1 23 30.0	64.45	15 4.12
	26	Mi	6 7.20	0 16 30.34	I 47 I5.3	64.44	16 3.85
	27	Do	5 48.96 18.27	0 20 8.00	2 10 49.5	64.44	16 3.58
	28	Fr	5 30.69 18.27	0 23 46.95 3 38.28	2 34 20.8 23 28.1	64.44	16 3.31
	29	Sa	- 5 12.42 <sub>18.2</sub> 6	0 27 25.23	+ 2 57 48.9	64.44	16 3.04
	30	So	4 54.16	O 3I 3.52	3 21 13.4 23 20.4	64.45	16 2.77
	31	Mo	4 35.93 18.19	0 34 41.84	3 44 33.8	64.46	16 2.50
April	I	Di	4 17.74 18.11	0 38 20.21	4 7 49.9 23 11.5	64.47	16 2.23
	2	Mi	3 59.63 18.02	0 41 58.65 3 38.54	4 31 1.4 23 6.4	.64.49	16 1,96
	3	Do	3 41.61 17.90	0 45 37.19 3 38.65	4 54 7.8 23 1.1	64.51	16 1,68
	4	Fr	- 3.23.71 17.76	0 49 15.84 3 38.79	+ 5 17 8.9 22 55 5	64.53	16 1.41
	- 5	Sa	3 3.93 17 60	0 52 54.03	5 40 4.4 22 49.5	64.55	16 1.14
	6	So	2 48.35	0 56 33.58	6 2 53.9 22 43.2	64.57	16 0.86
	7	Mo	2,30.93	I O 12.72	6 25 37.1	64.60	16 0.59
	8	Di	2 13.72 16.99	I 3 52.06 3 39.57	6 48 13.8 22 29.7	64.63	16 0.31
	2	Mi	1 56.73 16.74	I 7 31.63 3 39.81	7 10 43.5 22 22.5	64,66	16 0.03
	10	Do	- I 39.99 16.47	I II II.44 3 40.08	+ 7 33 6.0	64.70	15 59.75
	II	Fr	1 23.52 16.19	1 14 51.52	7 55 20.9 22 7.0	64.74	15 59.48
	12	Sa	1 7.33	1 18 31.89	8 17 27.9 21 58 8	64.78	15 59.20
	13	So	0 51.45	1 22 12.56	8 39 26.7 21 50.3	64.82	15 58.92
	14	Mo	0 35.88 15.23	I 25 53.55 3 41.32	9 I I7.0 21 41.5	64.87	15 58,64
(F. 1.5)	15	Di	0 20.65	1 29 34.87 3 41.67	9 22 58.5 21 32.2	64.92	TO SECOND
	16	Mi	- o 5.77 <sub>14.51</sub>	I 33 16.54 3 42.05	+ 9 44 30.7 21 22.6	64.97	15 58.10
	17	Do	+ 0 8.74	1 36 58.59 3 42.42	10 5 53.3 21 12.7	65.02	15 57.82
	18	Fr	0 22.87	I 40 4I,OI 3 42.81	10 27 6.0	65.07	15 57.55
	19	Sa So	0 36.61 13.33	1 44 23.82	10 48 8.5 20 51.9	65.13	15 57.29
	20	Mo	ð 49.94 1 2.86	1 48 7.04 3 43.64 1 51 50.68	11 9 0.4 20 40.9 11 29 41.3	65.19	15 57.02 15 56.76
		7300	1 2.80 12.50	3 44.06	II 29 4I.3 20 29.6		
	22	Di	+ 1 15.36	1 55 34.74 3 44.49	+11 50 10.9	65.32	15 56.50
	23	Mi	1 27.43	1 59 19.23	12 10 28.8	65.38	15 56.24
	24	Do	1 39.05	2 3 4.16 3 45.38	12 30 34.7	65.45	
186.69	25 26	Fr	1 50.22	2 6 49.54 3 45.83	12 50 28.2/ 13 10 8.9	65.52 65.59	
	27	Sa So	2 0.94 10.26 2 II.20	2 10 35.37 3 46.30 2 14 21.67	13 10 6.9 19 27.6	65.66	15 55.49 15 55.25
		15000	9.78	3 40.77	19 14.1	ACCES 200	Victor Control
	28	Mo	+ 2 20.98	2 18 8.44 3 47.26	+13 48 50.6	65.73	15 55.01
	29	Di M:	2 30.28	2 21 55.70 3 47.75	14 7 51.0	65.80	15 54.77
Mai	30	Mi	2 39.08 8.30	2 25 43.45 3 48.26	14 20 37.3	65.88	15 54.53
Mai	I 2	Do Fr	2 47.38 7.79	2 29 31.71 3 48.77 2 33 20.48 3 48.77	14 45 9.3 18 17.3 15 3 26.6	65.95 66.03	
64165	3	V 75 11 12	2 55.17 7.26	2 33 20.48 3 49.30	15 3 26.6 +15 21 28.8 18 2.2		15 53.82
3 3800	3	Ja	1 1 3 2.43	4 3/ 9./0	1 113 21 20.0	100.10	1 2 33.02

	O <sup>h</sup> Weltzeit										
Tag	Julian	C	Nutation in AR.	Mittleres Äquinok	tium	R	gang	gang Breite			
	Zeit	Sternzeit	langp. kurzp. Gl. Gl	1947.0 Länge	Breite		m	)h Länge			
1947	2432	h m s	s în o.ooı		in ".or		h m	h m			
März23	267.5	11 58 33.488		1 31 42.8	-31	0.996 7145 2819	5 59	18 16			
24	268.5	12 2 30.041	951 -10	2 31 14.5	-25	0.996 9964 2813	5 56	18 18			
25	269.5	12 6.26.594	The second second second	3 30 44. I 59 27.4	-15	0.997 2777 2808	5 54	18 19			
26	270.5	12 10 23.147	956 –16 958 –15	50 25.2	- 3 +10	0.997 5585 <sub>2803</sub> 0.997 8388	5 52	18 23			
27 28	272.5	12 14 19.700			+23	0.008 1180 2001	5 48	18 24			
	V 1819		400	59 20.5	9 5 1	2000	- 110000	1.373			
29	273.5	12 22 12.806	- 1 1 17 1		+35	0.998 3989 2802	5 46	18 26			
30	274.5 275.5	12 26 9.360 12 30 5.913		8 27 38.2 59 15.8 9 26 54.0	+46	0.998 6791 2806	5 43 5 41	18 27			
April 1	276.5	12 34 2.466			+61	0 000 2410 2013	5 41	18 30			
2	277.5	12 37 59,020	971 +16	. 50 II.I	+64	0 000 5232	5 37	18 32			
3	278.5	12 41 55.573	973 +13	12 24 27 5 59 8.9	+64	2033	5 35	18 34			
	279.5	CHANGE OF THE	pel property 12	59 0.0	+61	1.000 0909	100	18 35			
4 5	THE R. P. LEWIS CO., LANSING, MICH. 49, 102, 127, 127, 127, 127, 127, 127, 127, 12	12 49 48.680	-975 + 9 $977 + 3$	- 59 4.5	+55	T 000 2766	5 32	18 37			
6	281.5	12 53 45.233		15 21 41.1 59 2.5	+46	T 000 6624	5 28	18 38			
7	- CO   CO	12 57 41.787	980 - 8	16 20 41 5 59 0.4	+35	T 000 0 T T 4	5 26	18 40			
8		13 1 38.341	The same of the sa	17 10 40 0	+23	1.000 9514 <sub>2889</sub> 1.001 2403 <sub>2896</sub>	5 24	18 41			
9	284.5		984 –10	18 18 36.6 58 56.6	+10	1.001 5299 2901	5 22	18 43			
10	285.5	13 931.448	- 986 <b>-</b> 8	19 17 31.3	- 4	T 001 8200	5 20	1,8 44			
11	286.5		987 - 4	20 16 24 3 50 53.0	-17	I 002 II02	5 18	18 46			
12	287.5	13 17 24.555	989 0	21 15 15.4 58 51.1	-29	1.002 4004 2806	5 15	18 48			
13	288.5	13 21 21,109	990 + 4	22 14 4.8 58 49.4	-40	1.002 6900 2890	<b>'5 13</b>	18 49			
14	289.5	132517.663	992 + 8	23 12 52.5 58 47.7 58 46.0	-49	1.002 9790 2880	5 11	18 51			
1.5	290.5	13 29 14.217	993 +10	24 11 38.5 58 44.2	-55	1.003 2670 2866	5 9	18 52			
16	291.5	13 33 10.771	- 994 +10	25 10 22 7	-58	1.003 5536 2849	5 7	18 54			
17	292.5	13 37 7.325	996 + 7	26 0 5 2 58 42.5	-59	1,003 8385 2829	5 5	18 55			
18	293.5	1341 3.880	997 + 3	27 7 46.0 58 40.8	-58	1.004 1214 2807	5 3	18 57			
19	294.5	1345 0.434	998 - 3	28 6 25.0 58 39.0 58 37.3	54	1.004 4021 2780	5 1	18 59			
20	295.5	13 48 56.988	999 – 9	29 5 2.3 58 35.4	-46	1.004 6801	4 59	19 0			
21	296.5	13 52 53.542	1000 -14	39 3 37.7 58 33.5	-36	1.004 9553 2721	4 57	19 2			
22	297.5	13 56 50.097	-1001 -16	31 2 11.2	-25	1.005 2274 2601	4 55	19 3			
23	298.5	14 0 46.652	1002 -16	32 0 42.7 58 31.5 58 29.5	-12	1.005 4965	4 53	19 5			
24	299.5	14 443.206	1002 -11	32 59 12.2	+ 2	1.005 7625	4 51.	19 6			
25		14 8 39.761	1003 - 5	33 57 39.0	+15	1,006 0256	4 49	19 8_			
26		14 12 36.316		34 50 4.9	+27	1.006 2859	4 47	1.9 10			
27	302,5	14 16 32.871	1004 +10	35 54 28.1 58 21.0	+37	1.006 5437 2555	4 45	19 11			
28	303.5	14 20 29.426			+44	1.006 7992	4 44	19 13			
29		14 24 25.981		37 51 8.1	+47	1,007 0527	4 42	19 14			
30		14 28 22.536		38 49 24.9 58 14.8	+48	1.007 3044	4 40	19 16			
Mai 1		14 32 19.091	A STATE OF THE PARTY OF THE PAR	39 47 39.7	+46	1.007 5545	4 38	19 17			
2		14 36 15.647		40 45 52.4 58 10.9	+40	1,007 8033	4 36	19 19			
3	308.5	14 40 12,202	-1005 - I	41 44 3.3	+32	1 008 0508 24/3	4 35	19 20			

		a <sub>e</sub>		O h W e	ltzeit	1420	
Тад	3	Wochentag	Zeitgleichung Wahre Zeit <i>minus</i> Mittlere Zeit	Scheinbare Rektaszension	Scheinbare Deklination	Halbe Durch- gangs- Dauer StZt.	Halb- messer
194	7		m s	h m s	0 / //	s	
Mai	3	Sa	+ 3 2.43 s 6.72	2 37 9.78 m s	+15 21 28.8	66,10	15 53.82
	4	So	3 9.15 6.18	2 40 59.01	15 39 15.8	66.18	15 53.59
100	5	Mo	3 15.33	2 44 49.98	15 50 47.2	66,26	15 53.36
	6	Di	3 20.95	2 48 40.92	16 14 2.8	66.34	15 53.12
	7	Mi	3 26.01	2 52 32.41 3 52.06	16 31 2.3 16 43.0	66.43	15 52.89
	8	Do	3 30.51	2 56 24.47 3 52.64	16 47 45.3 16 26.3	66.51	15 52.67
	9	Fr	+ 3 34.43	3 0 17.11	+17 4 11.6	66.59	15.52.44
	10	Sa	3 37.70	3 4 10.33 3 53.81	17 20 21.0	66.67	15 52.22
	II	So .	3 40.51	3 8 4.14 3 54.40	17 30 13.0	66.75	15 52.00
	12	Mo Di	3 42.67	3 11 58.54 3 54.98	17 51 47.4 15 16.6 18 7 4.0	66.83	15 51.78
	13	Mi	3 44.24 0.98 3 45.22	3 15 53.52 3 19 49.10	18 7 4.0 18 22 2.4 14 58.4	67.00	15 51.56
	1286	1	0.39	3 50.17	14 40.0		
	15	Do Fr	+ 3 45.61	3 23 45.27	+18 36 42.4	67.08	15 51.13
	16	Sa	3 45.41 3 44.62	3 27 42.02	18 51 3.7 19 5 6.0 14 2.3	67.16	15 50.92
	18	So	3 44.62 3 43.26	3 31 39.37 3 57.92 3 35 37.29 3 58 19	19 18 48.9	67.32	15 50.52
	19	Mó	3 41.32	3 39 35.78 3 58.49	19 32 12.3	67.40	15 50.33
	20	Di	3 38.82 2.50	3 43 34.84	19 45 15.8 13 3.5	67.48	15 50.14
	21	Mi	+ 3 35.76	3 47 34.45	+19 57 59.I	67.56	15 49.95
	22	Do	3 32.17 3.59	3 51 34 60 4 0.15	20 IO 22,0	67.64	15 49.77
	23	Fr	3 28 05 4.12	3 55 35.28	20 22 24.1	67.71	15 49.60
	24	Sa	3 23,41 4.64	3 59 36.48	20 34 5.3	67.79	15 49.42
	25	So	3 18.27 5.14 5.63	4 3 38.17 4 2.19	20 45 25.2	67.86	15 49.25
	26	Mo	3 12.64 6.10	4 7 40.36 4 2.66	20 56 23.7	67.93	15 49.10
1	27	Di	+ 3 6.54	4 11 43.02	+21 7 6.4	68,00	15 48.93
	28.	Mi	2 59.97 6.57 7.03	4 15 46.15 4 3.13	21 17 15.2 9 52.7	68,07	15 48.78
	29	Do	2 52.94 7.47	4 19 49.73 4 4.02	21 27 7.9	68.14	15 48.63
	30	Fr	2 45.47	4 23 53.75	21 36 38.2	68,20	15 48.48
T .	31	Sa	2 37.58	4 27 58.20	21 45 40.0	68.26	15 48.34
Juni	I	So	2 29.27 8.72	4 32 3.07 4 5.28	21 54 31.2	68.32	15 48,19
	2	Mo	+ 2 20.55	4 36 8.35	+22 2 53.4 7 59.2	68.38	15 48.05
	3	Di	2 11.44	4 40 14.02	22 10 52.0	68.43	15 47.91
	4	Mi	2 1.95	4 44 20.07 4 6.42	22 18 28.6	68,48	
	5	Do Fr	I 52.08 10.21	4 48 26.49 4 6.77	22 25 41.3 6 49.2	68,53	15 47.65
	7	Sa	I 41.87	4 52 33.26 4 7.11 4 56 40.37	22 32 30.5 22 38 56.0	68,58 68,63	AND DESCRIPTION OF THE PARTY OF
	1000	1	I 31.32 10.87	4 7.43	Carlo de la carlo	COLUMN TO SERVICE STATE OF THE PARTY OF THE	15 47.40
69	8	So	+ 1 20.45	5 0 47.80 4 7.73	+22 44 57.8	68.67	15 47.28
	9	Mo Di	I 9.28	5 4 55.53 4 8.02	22 50 35.7	68.71	15 47.16
	10	Mi	0 57.82 11.73	5 9 3.55 4 8.29 5 13 11.84	22 55 49.6 4 49.8	68.74 68.77	15 47.04
	12	Do	0 34.11	5 17 20.37 4 0.53	23 0 39.4 4 25.5 23 5 4.9 4 25.5	68.80	15 46.82
	13	Fr	+ 0 21.90	5 21 29.14 4 8.77	+23 9 6.2 4 1.3	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN	15 46.72
		Valent .					

	O <sup>h</sup> Weltzeit							
Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp.   kurzp. Gl.   Gl.	Mittleres Äquinok 1947.0 Länge	tium  Breite	R		gang Breite Länge
1047	2422		s	SERVICE DESCRIPTION OF	2000000		200	200-200
1947 <b>Mai</b> 3	2432	h m s	in 0.001	47.44.000	in 5.51	7 00° 040°	h m	h m
Market Street Land	308.5	14 40 12.202 14 44 8.758	-1005 - 1 1005 - 6	41 44 3.3 58 9.0	+32	1.008 0508	4 35	19 20
4	309.5	14 44 8.758 14 48 5.313	1005 - 0	42 42 12.3 58 7.2 43 40 19.5	+ 8	1.008 5424 2453	4 33	19 22
5 6	311.5	14 52 1.869	1004 - 10	44 38 25.0	<del>-</del> 6	1.008 5424	4 31	19 25
7	312.5	14 55 58.425	1004 - 9	45 36 28.8 58 3.8	-19	1.000 7004 2427	4 29	19 26
8	313.5	14 59 54.980	1003 - 5	16 31 31 T 58 2.3	-32	1.009 2703	4.26	19 28
	S (1915)	STATE OF THE PARTY		58 0.8	587728	2395	3000	
9	314.5	15 351.536	-IOO2 - I	47 32 31.9 57 59.4	-45	1.009 5098	4 25	19 29
10	315.5	15 7 48.092	1002 + 3	48 30 31.3 57 58.0	-57	1.009 7473	4 23	19 31
II	316.5	15 11 44.649	1000 + 6	49 28 29.3 57 50.0	-66	1,009 9828	4 21	19 32
12	317.5 318.5	15 15 41.205	999 +10	50 26 25.9 57 55.3	<del>-74</del>	1,010.2158	4 20	19 34
13	319.5	15 19 37.761	999 + 10	51 24 21.2 52 22 15.3	-79 -81	1.010 4462	4 18	19 35
14	130 THE	15 23 34.318	998 + 8	52 22 15.3 57 52.8	16.5	2241	4 17	19 37
15	320.5	Company of the Compan	-997 + 4	53 20 8.1	-80	1:010 8978	4 15	19 38
16	321.5	15 31 27.430	996. – 2	54 17 59 7	-76	1.011 1184	4 14	19 39
17	322.5	15 35 23.987	995 – 8	55 15 50.1	-69	1.011 3350	4 13	19 41
18	323.5	15 39 20.544	993 —13	56 13 39.3	<b>–</b> 60	1.011 5473 2077	4 11	19 42
19	324.5	15 43 17.101	992 -17	57 11 27.3 57 46.6	-49	1.011 7550 2029	4 10	19 44
20′	325.5	15 47 13.657	991 -17	58 9 13.9 57 45.4	-36	1.011 9579	4 9	19 45
21	326.5	15 51 10.214	<b>–</b> 989 −14	59 6 59.3 57 43.9	-23	1.012 1558	4 8	19 46
22	327.5	15 55 6.771	987 - 7	00 4 43.2	-10	1.012 3485 1877	4 6	19 48
23	328.5	15 59 3.329	985 + 1	61 2 25.7	+ 3	1.012 5302	4 5	19 49
24	329.5	16 2 59.886	984 + 9	02 0 0.8	+14	1.012 7190	4 4	19 50
25	330.5	16 6 56.443	982 + 15	02 57 40.3	+22	1,012 8970	4 3	19 51
26	331.5	16 10 53.000	980 +18	63 55 24.3 57 36.5	+26	1.013 0705 1694	4 2	19 53
27	332.5	16 14 49.558	- 978 +17	64 53 0.8	+28	1.013 2399 1654	4 I	19 54
28	333.5	16 18 46.115	976 +13	65 50 35.8 57 35.0 57 33.6	+27	1.013 4053 1618	4 0	19 55
29	334.5	16 22 42,672	974 + 7	00 48 9.4	+23	1.013 5671	3 59	19 56
30	335.5	16 26 39.230	972 + 1	67 45 41.5	+15	1.013 7255	3 58'	19 57
31	336.5	16 30 35.788	969 – 5	68 43 12.3	+ 5	1.013 8807	3 57	19 58
Juni 1	337.5	16 34 32.345	967 – 8	69 40 41.9 57 28.3	- 7	1.014 0329	3 57	19 59
2	338.5	16 38 28.903	- 965 -10	70 38 10.2	-20	1.014 1822	3 56	20 0
3	339.5	16 42 25.461	962 - 9	71 35 37.5 57 26.2	-34	1.014 3286	3 55	20 I
4	340.5	16 46 22.019	960 – 6	72 33 3.7 57 25.2	-48	1.014 4721 1435	3 54	20 . 2
5		16 50 18.576	957 - 2	73 30 28.9 57 24.4	-61	1.014 6127	3 54	20 3
6		16 54 15.134	955 + 2	74 27 53.3	-73	1.014 /502	3 53	20 4
7	343.5	16 58 11.692	952 + 6	75 25 16.8 57 22.9	-83	1.014 8847	3 53	20 5
8	344.5	17 2 8.250	- 950 + 8	76 22 39.7	- 91	1,015 0158	3 52	20 6
9	345.5	17 6 4.808		77 20 1.8 57 22.1	- 97	1.015 1435	3 52	20 7
10		17 10 1.366		78 17 23.4 57 21.0	-101	1.015 2675	3 51	20 7
II	347.5	17 13 57.924	942 + 5	79 14 44.4	-101	1015 3876 1201	3 51	20 8
12			939 0	80 12 4.9 57 20.5	- 98	1.015 5036	3 51	20 9
13	349.5	17 21 51.041	- 936 - 6	81 9 25.0 57 20.1	- 92	1.015 6151 1115	3 51	20 9

	Die	100	Sec		Oh We	ltzeit		
	Tag		Wochentag	Zeitgleichung Wahre Zeit <i>minus</i> Mittlere Zeit	Scheinbare Rektaszension	Scheinbare Deklination	Halbe Durch- gangs- Dauer StZt.	Halb- messer
1	1947	6.6	P153	m s	h m s	a / //	5	, ,
Ju	ıni	13	Fr .	+ 0 21 00 5	5 21 20 14 <sup>m</sup> s	+23 9 6.2	68,83	15 46.72
		14	Sa	+ 0 9.49	5 25 38.11	23 12 43 0 3 30.8	68.86	15 46.62
	1	15	So	- 0 3 TO 12.59	5 29 47,26 4 9.15	23 15 55 2	68.88	15 46.52
		16	Mo	0 15.85	5 33 56,57 4 9.31	23 18 42.9	68.90	15 46.43
		17	Di	0 28.74	5 38 6.01 4 9.44	23 21 6.0 2 23.1	68.92	15 46.35
		18	Mi	0 41.73	5 42 15.56 4 9.55 4 9.63	23 23 4.3 1 33.5	68.93	15 46.27
		19	Do	- o 54.80	5 46 25.10	+22 21 27 8	68,94	15 46.20
		20	Fr	I 7.92	5 50 34.86 4 9.07	23 25 46.5	68.94	15 46.13
		21	Sa	I 21.05 13.13	5 54 44.55 4 9.09	23 26 30.4	68.94	15 46.07
	- 84	22	So	1 34.17	5 58 54.23 4 9.68	23 26 49 4	68.94	15 46.02
		23	Mo	1 47.25	6 3 3.87 4 9.04	23 26 43.6	68.93	15 45.96
		24	Di	2 0.27	6 7 13.45 4 9.58	23 26 12.9	68.92	15 45.92
		25	Mi	- 2 13.19	6 11 22.03	+23 25 17.4	68,91	15 45.87
		26	Do	2 25 00	6 15 32.20 4 9.36	23 23 57.2	68.90	15 45.84
		27	Fr	2 38.66	6 10 41.52 4 9.23	23 22 12.2	68,88	15 45.81
		28	Sa	2 51.16	6 23 50.58 4 9.06	23 20 2.6 2 9.6	68.86	15 45.78
		29	So	3 3.49	6 27 50.46	23 17 28.4	68.84	15 45.76
		30	Mo	3 15.62 11.90	6 32 8.15 4 8.69	23 14 29.7	68,81	15 45.74
Ju	ıli	1	Di	- 3 27.52	6 36 16 61	+23 11 6.5	68.79	15 45.72
		2	Mi	3 39.18	6 40 24.83 4 8.22	23 7 10.0 3 47.5	68.75	15 45.71
		3	Do	3 50.58	6 44 32.79	23 3 7.4	68.71	15 45.71
		4	Fr	4 1.71 10.84	6 48 40.48 4. 7.69	22 58 31.6 4 35.8	68,67	15 45.69
		5	Sa	4 12.55	6 52 47.88	22 53 31.7 5 23.7	68,63	15 45.69
		6	So	4 23.08 10.20	6 56 54.96 4 6.76	22 48 8.0 5 47.4	68.59	15 45.69
		7	Mo	- 4 33.28	7 I I.72 4 6.41	+22 42 20.6	68.54	15 45.70
		8	Di	4 43.13	7 5 8.13 4 6.06	22 36 9.6 6 34.5	68.48	15 45.70
		9	Mi	4 52.63 9.50	7 9 14.19 4 5.68	22 29 35.1 6 57.9	68.43	15 45.71
		10	Do	5 1.76 8.73	7 13 19.87	22 22 37.2	68.37	15 45.73
	4003	II	Fr	5 10.49	7 17 25.16	22 15 16.2 7 44.0	68.31	15 45.75
Mary.		12	Sa	5 18.82 7.91	7 21 30.04 4 4.47	22 7 32.2 8 6.9	68.25	15 45.77
		13	So	- 5 26.73	7 25 34.51	+21 59 25.3 8 29.5	68.19	15 45.80
		14	Mo	5 34.20 7.47	7 29 38.54 4 3.57	21 50 55.8 8 52.0	68.13	15 45.83
		15	Di	5 41.21 6.54	7 33 42.11 4 3.10	21 42 3.8 9 14.2	68,06	
		16	Mi	5 47.75 6.06	7 37 45.21	21 32 49.6	67.99	15 45.91
		17	Do	5 53.81	7 41 47.82	21 23 13.2	67.92	15 45.96
		18	Fr	5 59.36 5.02	7 45 49.93 4 1.58	21 13 15.0 9 56.2	67.84	15 46.02
		19	Sa	- 6 4.38 4.49	7 49 51.51	+21 2 55.1	67.77	15 46.07
	1000	20	So	0 8.87	7 53 52.55 4 0.49	20 52 13.9	67.70	15 46.14
		21	Mo	0 12.79	7 57 53.04	20 41 11.5	67.62	15 46.21
		22	Di	0 10.15	8 1 52.95	20 29 48.2	67.54	15 46.29
		23	Mi	6 18.93	8 5 52.28 2 58 74	20 10 4.3	67.46	15 46.37
A Hotel	SIN.	24	Do	- 6 21.11	8 9 51.02	+20 6 0.1	67.38	15 46.46

	O <sup>h</sup> Weltzeit							Unter-
Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp.   kurzp. Gl.   Gl.	Mittleres Äquinok 1947.0 Länge	tium  Breite	R	$ ext{gang} \  ext{in} egin{pmatrix} +50 \ 0 \end{bmatrix}$	gang Breite Länge
1947	2432	h m s	s in o.oor	0 , "	in 0.01		h m	h m
Juni 3	349.5	17 21 51.041	<b>-</b> 936 - 6	81 9 25.0	- 92	1.015 6151	3 51	20 9
14	350.5	17 25 47.599		82 6 44 7 57 19.7	- 83	1.015 7210	3 50	20 10
15	351.5	17 29 44.157	930-17	82 1 30 57 19.2	- 72	1.015 8236 1017	3 50	20 10
16	352.5	17 33 40.715	928-19	84 1 22 8 57 10.9	- 60	1.015 9199 963	3 50	20 11
17	353.5	17 37 37.273	925-17	84 58 41.3 57 18.5 57 18.1	- 47		3 50	20 11
18	354.5	17 41 33.832	922-11	85 55 59.4 57 17.5	- 34	1.016 0949 784	3 50	20 12
19	355.5	17 45 30.390	-919 - 3	86 53 16.9	- 21	1.016 1733	3 50	20 12
20	356.5	17 49 26.948	916+ 5	87 50 34.0 57 17.1 87 50 34.0 57 16.5	- 9	1.016 2454 659	3 50	20 12
21	357.5	17 53 23,506	913+13	88 47 50.5 57 15.8	. 0	1.016 3113 599	3 50	20 13
22	358.5	17 57 20.065	The second second	89 45 6.3 57 15.2	+ 6	1,010 3712	3 51	20 13
23	359.5	18 1 16.623	1 2 1 10 1 1 1 1 1 1	90 42 21.5	+ 9	1.010 4252	3 51	20 13
24	360.5	18 5 13.181	905+15	91 39 36.1	+ 9	1.010 4737	3 51	20 13
25	361.5	18 9 9.739	-902+10	92 36 50.1	+ 6	284	3 51	20 13
26	362.5	18 13 6.298	Table 1000000000000000000000000000000000000	93 34 3.4	- I	1.010 5554	3 52	20 13
27	363.5	18 17 2.856		94 31 16.1	- 10	1.010 5893	3 52	20 13
28	364.5	18 20 59.414		95 28-28.3	- 22	1.016 6189	3 53	20 13
29	365.5	18 24 55.972	THE RESERVE THE PARTY OF THE PA	90 25 40.0	- 34	1.016 6443	3 53	20 13
30	366.5	18 28 52.530	887 - 8	97 22 5.1.4 57 11.0	- 47	1.016 6658	3 54	20 13
Juli 1	367.5	18 32 49.089	-885 - 5	98 20 2.4	- 60	1.016 6836	3 54	20 13
2	368.5	18 36 45.647	882 - 2	99 17 13.2 57 10.8	- 73		3 55	20 12
3	369.5	18 40 42.205	879+ 2	100 14 23.8 57 10.5	- 84	1.016 7082 70	3 56	20 12
4	370.5	18 44 38.763		101 11 34.3	- 94	1.010 7152	3 56	20 12
5	371.5	18 48 35.321		102 8 44.8	-103	A CARLOT NO COLUMN TO STATE OF THE PARTY OF	3 57	20 11
6	372.5	18 52 31.879	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	103 5 55.5 57 10.7	-109	1.016 7183	3 58	20 11
7	373.5	18 56 28.437		104 3 6.2	-II2	HQ	3 59	20 10
8	374.5	19 0 24.995		105 0 17.2	-113	1.016 7066	3 59	20 10
9	375.5	19 421.553		105 57 20.5	-110	1.016 6949	4 0	20 9
10	376.5	19 8 18.111		100 54 40,1	-105	1.016 6791	4 1	20 9
II	377.5	19 12 14.668		10/ 51 52.2	- 97	1.016 6589	4 2	20 8
12	378.5	19 16 11,226	12 49 Year	100 49 4.7	<b>–</b> 86	1.016 6341 298	4 3	20 7
13	379.5	19 20 7.784	A Factor of the Contract of th	109 46 17.8	- 74	250	4 4	20 6
14	380.5	The second of the second			- 61	1.010 5093	4 5	20 6
15		19 28 0.899		111 40 45.6 57 14.2	- 47	1.010 5288	4 6	20 .5
16		19 31 57.457		112 38 0.3		1.010 4824	4 7	20 4
17	The second second	19 35 54.014		113 35 15.6 57 15.7	- 23	500	4 8	20 3
18	The second second	19 39 50.572		114 32 31.3 57 16.2	- 13	050	4 10	20 2
19				115 29 47.5 57 16.5	- 5		4 11	20 I
20		19 47 43.686		11627 4.0 57 16.9	- I	1.010 2351	4 12	20 0
21		19 51 40 243			0	1.010 1570 832	4 13	19 59
22		19 55 36.800		110 21 30.1 110 10 17 6 57 17.5	- 2		4 14	19 57
23 24		19 59 33:358		120 16 13.4 57 17.8	- 7	1,015 9858	4.16	19 56
24	390.5	20 3 29.915	1-032 0	1 120 10 13.4	1 - 15	1.015 8919	4 17	19 55

3		ag.		0 h W e	ltzęit		
Tag	5	Wochentag	Zeitgleichung Wahre Zeit <i>minus</i> Mittlere Zeit	Scheinbare Rektaszension	Scheinbare Deklination	Halbe Durch- gangs- Dauer StZt.	Halb- messer
194	7	9.80	m s	h m s		S	
Juli	24	Do	- 6 21 11 s	8 0 51 02 m s	+20 6 0.1	67.38	15 46.46
	25	Fr	6 22.69	8 13 49, 16 3 58.14	19 53 35.7	67.30	15 46.55
	26	Sa	6 23.66 0.97	8 17 46.60 3 57.53	19 40 51.5	67.22	15 46,65
	27	So	6 24.03 3.37	8 21 43.62 3 56.93	19 27 47.7	67.13	15 46.75
	28	Mo	6 23.79 0.86	8 25 39.93	19 14 24.6	67.05	15 46.85
	29	Di	6 22,93	8 29 35.63 3 55.70	19 0 42.5	66.96	15 46.96
	30	Mi	- 6 21.46	8 33 30.72	+18 46 41.7	66.87	15 47.07
	31	Do	6 19.38 2.08	8 37 25.19 3 54-47	18 32 22.4	66.79	15 47.18
Aug.	ı	Fr	6 16.68 2.70	8 41 10.05 3 53.86	18 17 44.0	66.70	15 47.30
	2	Sa	6 13.38 3.30	8 45 12 30 3 53.25	18 2 49.4	66,61	15 47.42
	3	So	6 9.47 3.91	8 49 4.94	17 47 36.3	66.53	15 47.54
	4	Mo	6 4.95 4.52	8 52 56.99 3 52.05 3 51.45	17 32 5.9 15 47.5	66.44	15 47.66
	5	Di	- 5 59.84 Tel	8 56 48 44	+17 16 18.4	66.35	15 47.80
	6	Mi	5 54 15 5.09	0 0 30.20 3 50.85	17 0 14 1	66.27	15 47.93
WE KIN	7	Do	5 47 86 6.29	0 4 20.56 3 50.27	16 43 53 2	66.18	15 48.06
	8	Fr	5 40.99	0 8 10 26 3 49.70	16 27 16 1 10 37.1	66.09	15 48,20
	9	Sa	5 33 56 7.43	0 12 8.38 3 49.12	16 10 23.1	66.01	15 48.34
11.0	10	So	5 25.56 8.00 8.56	9 15 56.93 3 48.55	15 53 14.3	65,92	15 48,49
	II	Mo	- 5 17.00	9 19 44.92	+15 35 50.2	65.84	15 48.63
	12	Di	5 7.88 9.12	0.23 32 36 3 47.44	15 18 11.0 17 39.2	65.76	15 48.79
	13	Mi	4 58.22	0 27 10.26 3 40.90	15 0 17 0 17 54.0	65.68	15 48,94
	14	Do	4 48.01	0 31 5 60 3 40.34	14 42 8.5	65.60	15 49.11
	15	Fr	4 37.26 10.75	9 34 51.41	14 23 45 0	65.52	15 49.27
	16	Sa	4 25.99 11.81	9 38 36.69 3 45.28	14 5 9.5 18 36.4	65.44	15 49.44
	17	So	- 4 14.18	0 42 21.43	+13 46 19.5	65.36	15 49.62
	18	Mo	4 1.84 12.34	9 46 5.65 3 44.22	13 27 16.4 19 3.1	65.28	15 49.80
	19	Di	3 48.99	0 40 49.35	13 8 05 19 15.9	65.21	15 49.98
	20	Mi	3 35 62 13.37	0 52 22 54 3 43.19	12 48 32.1	65.13	15 50.17
	21	Do	3 21.75	9 57 15.23	12 28 51.6	65.06	15 50.37
	22	Fr	3 7.38 14.37	10 0 57.41 3 42.18	12 8 59.3 19 52.3 20 3.8	64.99	15 50.57
	23	Sa	- 2 52.53	10 4 39.12	+11 48 55.5	64.93	15 50.77
	24	So	2 37.22 15.31	10 8 20 36 3 41.24	11 28 40.6	64.86	15 50.97
	25	Mo	2 21,45	10 12 1.14 3 40.78	11 8 14.9 20 25.7	64.80	15 51.19
	26	Di	2 5.23	10 15 41.48 3 40.34	10 47 38.7	64.74	15 51.40
Charles !	27	Mi	1 48.60	10 10 21 41 3 39.93	10 26 52.4	64.68	15 51.61
	28	Do	1 31.56 17.04	10 23 0.92 3 39.51	10 5 56.1 21 5.7	64.62	15 51.83
	29	Fr	- I I4.13	10 26 40.05	+ 9 44 50.4	64.57	15 52.04
	30	Sa	0 56 32 17.80	10 30 18.80 3 30.75	0 23 35.4	64.51	15 52.26
	31	So	0 38 18 10.15	10 33 57.20 3 30.40	0 2 11.4	64.46	15 52.49
Sept.	I	Mo	0 10 60	10 37 35.27 3 30.07	8 40 38.9	64.41	15 52.71
The state of	2	Di	- o o.89 10.00	10 41 13.02 3 37.75	8 18 58.0 21 40.9 21 48.9	64.37	15 52.93
A 163 54 1	3	Mi	+ 0 18.20 19.09	10 44 50.48 3.37.46	+ 7 57 9.1	64.33	15 53.16

		No.	0 h	Weltzeit			Auf-	Unter-
Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp,   kurzp. Gl.   Gl.	Mittleres Äquinokt 1947.0 Länge	tium  Breite	R		gang Breite Länge
1947	2432	h m s	in 0.001		in ".01		h m	h m
Juli 24	390.5	20 3 29.915	-832 0	120 16 13.4	- 15	1.015 8919 986	4 17	19 55
25	391.5	20 7 26.472	830 - 5		- 25	1.015 7933	4 18	19 54
26	392.5	20 11 23.028	THE RESERVE TO SERVE THE PARTY OF THE PARTY	122 10 50.0 57 18.4	37	1.015 6901	4. 20	19 52
27	393.5	20 15 19.585	827 - 8	123 8 8.9	- 49	1.015 5826	4 21	19 51
28	394.5	20 19 16.142	THE RESERVE OF THE PARTY OF THE	124 5 28.2	- 61	1.015 4712	4 22	19 50
29	395.5	20 23 12,699	825 - 3	125 248.1 57 20.4	- 74	1.015 3561 1186	4 24	19 48
30	396.5	20 27 9.255	-824+ 1	126 0 8.5	- 85	1.015 2375	4 25	19 47
31	397.5	20 31 5.812	822+ 5	120 57 29.0	- 95	1.015 1155	4 26	19 45
Aug. 1	398.5	20 35 2.368	821+ 9	127 54 51.4	-103	1.014 9903	4 28	19 44
2	399-5	20 38 58.924	The second second second	128 52 14.0	-108	1.014 8619	4 29	19 42
3	400.5	20 42 55.481	820+11	129 49 37.5	-112	1.014 7305	4 31	19 41
4	401.5	20 46 52.037	819+ 8	130 47 1.9 57 25.5	-113	1.014 5960 1375	4 32	19 39
5	402.5	20 50 48.593		131 44 27.4 57 26.6	-111	1.014 4585	4 33,	19 38
6	403.5	20 54 45.149	817 - 1	132 41 54.0	-105	1.014 3179	4 35	19 36
7	404.5	20 58 41.705	WALLEY LAND TO LOUIS	133 39 21.7	- 98	1.014 1741	4 3.6	19 34
8	405.5	21 2 38.261	816-14	134 30 50.7	- 88	TENT	4 38	19 33
9	406.5	21 6 34.816	COLUMN TO STATE OF THE PARTY OF	135 34 21.1	- 76		4 39	19 31
10	17 50 18 1	21 10 31.372	816-19	136 31 52.8 57 33.1	- 63	1.013 7218	4 41	19 29
II.	408.5			137 29 25.9 57 34.6	- 50	1.013 5634 1628	4 42	19 27
12	409.5	21 18 24.483	815-11	138.27 0.5	- 37	1.013 4006	4 44	19 26
13	CONTRACTOR OF THE PARTY OF	21 22 21.039		139 24 30.5	- 24	1723	4 45	19 24
14	411.5	Commence of the second second	CONTRACTOR STREET	140 22 13.9 57 38.9	- I4		4 47	19 22
15	412.5	21 30 14.149 21 34 10.704	815+12 816+16	141 19 52.8 57 40.2 142 17 33.0	- 6 0	1.012 8836 1826 1.012 7010	4 48	19 20
	200 Act		PER COLUMN	57 41.5		1079	4 50	19 18
17	414.5	21 38 7.259	-816+16	143 15 14.5	+ 1	1.012 5131	4 51	19 16
18	415.5	21 42 3.814	816+13	144 12 57.3	- I	1.012 3200	4 53	19 14
19	416.5	21 46 0.369	817+ 7	145 10 41.3 57 45.1	<b>–</b> 5	1.012 1218	4 54	19 12
20	417.5	21 49 56.924	817+ 1 818- 4	146 8 26.4 57 46.3 147 6 12.7	- I2	1.011 9189	4 55	19 10
22	419.5	21 53 53.479 21 57 50.034	819 – 8	7.48 4 0 2 57 47.5	- 21 - 32	1.011 7115 2116	4 57 4 58	19 8
	2010		120 CO 6732	57 48.0	32	2153	9000	300
23	420.5	Color State of the	-819 - 9	149 1 48.8	- 44	1.011 2846	5 0	19 5
24	421.5	22 5 43.143	NAME OF TAXABLE PARTY.	149.59 38.5	<b>-</b> 56		5 I	19 3
25	422.5		COLUMN THE PARTY OF THE PARTY O	150 57 29.5 57 52.2	- The State of the	1.010 8441	5 3	19 1
26		22 13 36.252		150 57 29.5 151 55 21.7 57 52.2 152 53 15.2 57 53.5 57 54.8	- 79 - 80		5 4	18 58
27 28	SECTION STATES	22 17 32.806 22 21 29.360	CONTRACTOR OF THE PARTY OF THE	152 53 15.2 57 54.8	<b>-</b> 89		5 6	18 56
	TO STATE OF THE PARTY.			THE RESERVE OF THE PROPERTY OF THE PARTY OF	79,79,90	2310	No. of Contract	27117179
29	ACCURATION AND ADDRESS OF	22 25 25.914		154 49 6.2 155 47 3.8 57 57.6	-102	2225	5 9	i8 52
30	DOMESTON	22 29 22,468	Contract of the Contract of th		-105	1.009 0970	5 10	18 50
Sent I	PART DOMESTIC	22 33 19.023			-105	1.009 4025	5 12	18 48
Sept. 1	Carlotte State of the State of	22 37 15.577	COLUMN TO SERVICE STATE OF THE PARTY OF THE	157 43 3.8	-103	. 2382	5 13	18 46
3		22 41 12.131 22 45 8.685		130 41 0.2	- 97 - 80	1.008 9876 2396 1.008 7480	5 15	18 44
3	1 431.5	22 45 0.005	1 032 5	11239 39 10.4	- 89	1.000 /400	5 16	10 42

-		88		0 h W e	ltzeit		
Тад		Wochentag	Zeitgleichung Wahre Zeit <i>minus</i> Mittlere Zeit	Scheinbare Rektaszension	Scheinbare Deklination	Halbe Durch- gangs- Dauer StZt.	Halb- messer
194	7		m s	h m s		S	A 1818
Sept.	3	Mi	+ 0 18.20	10 44 50.48 m s	+ 7 57 9.1	64.33	15 53.16
	4	Do	0 37.57	10 48 27.07	7 35 12.6	64.29	15 53.39
	5	Fr C-	0 57.19	10 52 4.60 3 36.70	7 13 8.6	64.25	15 53.62
	7	Sa So	I 17.04 20.07	10 55 41.30 10 59 17.79	6 50 57.4 6 28 39.5	64.21	15 53.85
	8	Mo	1 37.11 20.26 1 57.37	10 59 17.79 11 2 54.09 3 36.30	6 28 39.5 6 6 15.0	64.15	15 54.32
	1	12300	20.43	3 30.12	22 30.7		
	9	Di Mi	+ 2 17.80 2 38.39	11 6 30.21 11 10 6.18 3 35.97	+ 5 43 44.3 5 21 7.8	64.12	15 54.55
	II	Do	2 50 11	11 13 42.01 3 35.83	5 21 7.8 4 58 25.6 22 42.2	64.07	15 55.04
	12	Fr	3 10.05	11 17 17.71	4 35 38.3	64.05	15 55.28
	13	Sa	3 4O OT	II 20 53.31 3 35.00	4 12 46.1	64.04	15 55.53
	14	So	4 1.95	II 24 28.83 3 35.52	3 49 49.3	64.03	15 55.78
	15	Mo	+ 4 23.07	3 35-43 11 28 4.26	+ 3 26 48.4	64.02	15, 56,03
	16	Di	4 44.24	II 3I 39.64 3 35.38	3 3 43.7	64.01	15 56.29
	17	Mi	5 5.46	11 35 14.98 3 35.34	2 40 35.6 23 8.1	64.01	15 56.56
	18	Do	5 26.71 21.26	11 38 50.28 3 35.30 3 35.29	2 17 24.4	64.01	15 56.82
	19	Fr	5 47.97 21.25	11 42 25.57	I 54 IO.5 23 16.3	64.01	15 57.09
	20	Sa	6 9.22	11 46 0.87 3 35.33	I 30 54.2	64.01	15 57.35
	21	So	+ 6 30,44 21,18	11 49 36.20	+ I 7 35.9 23 20.0	64.02	15 57.62
	22	Mo	6 51.62	11 53 11.57	0 44 15.9	64.03	15 57.90
	23	Di	7 12.74 21.02	11 56 47.01 3 35.53	+ 0 20 54.7	64.05	15 58.17
	24	Mi	7 33.76	12 0 22.54	- 0 2 27.6 23 22.9	64.07	15 58.44
	25	Do Fr	7 54.68 20.79 8 15.47	12 3 58.18 3 35.04 12 7 33.95	0 25 50.5	64.09	15 58.72
16.6		753	20.63	3 35.92	0 49 13.6		
	27	Sa	+ 8 36.10	12 11 9.87	- I 12 36.7	64.13	15 59.27
	28	So Mo	8 56.56 20.26 9 16.82	12 14 45.96 12 18 22.26 3 36.30	I 35 59.5 23 22.1	64.16	15 59.55
	30	Di	9 16.82 9 36.85	12 16 22.20 3 36.52	1 59 21.6 2 22 42.6	64.19	15 59,82
Okt.	I	Mi	9 56.64 19.79	12 25 35.54 3 36.76	2 16 2 3 23 19.7	64.26	16 0.38
	2	Do	10 16.17	12 29 12.57	3 0 20 3	64.31	16 0.65
	3	Fr	+10 25 20	3 37 33 12 32 49.90	- 3 32 36.3	64.35	16 0.92
	4	Sa	10 54 30 18.91	12 36 27.54 3 37.04	3 55 50.0 23 13.7	64.40	16 1.19
	5	So	11 12.87	12 40 5.52 3 37.98	4 10 1.1	64.45	
	6	Mo	11 31.08	12 43 43.87 3 30.35	4 42 9.2	64.50	16 1.74
	7	Di	11 48.90 17.82	12 47 22.60 3 38.73	5 5 13.9 23 4.7	64.56	THE RESERVE OF THE PARTY OF THE
	8	Mi	12 6.31 16.99	12 51 1.74 3 39.57	5 28 14.9 22 57.1	64.62	16 2.28
1975	9	Do	+12 23.30	12 54 41.31	- 5 51 12.0	64.68	16 2.55
	10	Fr	12 39.85 16.08	12 58 21.32 3 40.01	6 14 4.6 22 52.6	64.74	16 2.82
	11	Sa	12 55.93	13 2 1.79	0 30 52.4	64.81	16 3.10
	12	So	13 11.53	13 5 42.74	6 59 35.0	64.88	16 3.37
	13	Mo	13 26.64	13 9 24.19	7 22 12.1	64.95	16 3.64
THE P.	14	Di	+13 41.24	13 13 6.14 3 47.93	- 7 44 43.2	65.03	16 3.92

- ST	100		0 h	Weltzeit	1134		Auf-	Unter-
Tag	Julian. Zeit	Sternzeit	Nutation in AR. laugp.   kurzp. Gl.   Gl.	Mittleres Äquinok 1947.0 Länge	tium Breite	R	gang +50	gang Breite Länge
1947	2432	h m s	s in 0,001		in 0,01	-21 175 15 17 195	h m	h m
Sept. 3	431.5	22 45 8.685	-832 - 5	159 39 10.4	-89	1,008 7480	5 16	18 42
4	432.5	22 49 5.238	834-11	160 37 16.3 50 5.9	-79	1.008 5060 2411	5 18	18 40
5	433.5	22 53 1.792	835-16	161 35 24.1 58 7.8 58 9.8	-68	1.008 2644 2441	5 19	18 37
6	434.5	22 56 58.346	837 -18	102 33 33.9	-54	1,008 0203	5 21	18 35
7	435.5	23 0 54.900	838-17	163 31 45.7	-40	1.007 7745	5 22	18 33
8	436.5	23 451.453	840 -13	164 29 59.5 58 15.9	-26	1.007 5267 2500	5 24	18 31
9	437.5	23 8 48.007	-842 - 6	165 28 15 4	-13	1.007 2767	5 25	18 29
10		23 12 44.560	844+ 2	166 26 22 4 50 10.0	- 2	I.007 0242 2525	5 27	18 27
II		23 16 41.114	846+ 9	167 24 53.5 58 20.1 58 22.2	+ 6	1.006 7690 2552	5 28	18 24
12	440.5	23 20 37.667	848+13	168 23 15.7	+13	1.006 5107 2613	5 30	18 22
13	441.5	23 24 34.221	849+15	169 21 39.9 58 26.2	+16	1.006 2494 2647	5 3.1	18 20
14	442.5	23 28 30.774	851+13	170 20 6.1 58 28.2	+15	1.005 9847 2680	5 33	18 18
15	443.5	23 32 27.327	-853 + 8	171 18 34 3	+11	1.005 7167	5 34	18 16
16	444.5	23 36 23.881	856+ 2	172 17 4.3 58 30.0 58 31.8	+ 4	1.005 4454	5 36	18 14
17		23 40 20.434	858 - 4	173 15 36.1 58 33.6	- 5	1.005 1710 2773	5 37	18 11
18	446.5	23 44 16.987	860 – 8	174 14 9.7 58 35.3	-16	1.004 8937 2799	5 39	18 9
19	447.5	23 48 13.540	862 - 9	175 12 45 0	-27	1,004 0138	5 40	18 7
20	448.5	23 52 10.094	864 – 8	176 11 22.1 58 38.7	-39	1.004 3317 2840	5 42	18 5
21	449.5	23 56 6.647	<b>-</b> 866 <b>-</b> 5	177 10 0.8	-52	1.004 0477	5 43	18 3
22	450.5	0 0 3.200	868 – I	178 8 41.1 58 42.1	-63	1,003 7622	5 45	18 0
23	451.5	0 3 59.753	870+ 4	179 7 23.2	-72	1.003 4755	5 46	17 58
24	452.5	0 7 56.307	872+ 8	180 6 . 7.0	-79	1.003 1879 2883	5 48	17 56
25	453.5	0 1 1 52.860	874+11	181 4 52.0 58 47.3	-85	1,002 8996	5 49	17 54
26	454.5	0 15 49.413	877+12	102 3 39.9 58 49.1	-87	1,002 6110 2886	5 51	17 52
27	455.5	0 19 45.967	-879+11	183 2 29.0 58 50.9	-87	1.002 3224 2884	5 52	17 49
28	456.5	0 2 3 4 2 . 5 2 0	881+8	184 I 19.9 58 52.0	-85	1.002 0340	5 54	17 47
29	457.5	0 27 39.073	883+ 3	185 0 12.8	-79	1.001 7460 2873	5 55	17 45
30	458.5	0 31 35.627	885 - 3	185 59 7.0	-70	1.001 4587	5 57	17 43
Okt. 1	459.5	0 35 32.180	887 - 9	186 58 4.4 58 58.8	-60	1.001 1722 2855	5 58	17 41
2	460.5	0 39 28.733	889-14	187 57 3.2 59 1.0	-47	1.000 8867 2846	6 0	17 38
3	461.5	0 43 25.286	-891 -17	188 56 4.2	-34	1.000 6021	6 і	17 36
4	462.5	0 47 21.840	893 -17	189 55 7.4	-19	1.000 3184	6 3	17 34
5	463.5	0 51 18.393		190 54 12.9	<del>-</del> 4	1.000 0355	6 5	17 32
6	464.5			191 53 20.7	+ 9	0.999 7533 2818	6 6	17 30
7	465.5	0 59 11.500	899 0	192 32 30.0	+22	0.999 4715	6 8	17 28
8	466.5	1 3 8.054	900+8	193 51 43.3	+32	0.999 1900 2816	6 9	17 26
9	467.5	1 7 4.607	-902+13	194 50 50.1	+38	0.998 9084 2818	6 11	17 23
10	468.5	111 1.161	The state of the s	195 50 15.3	+42	0.998 6266	6 12	17 21
II	469.5	1 14 57.715	100	190 49 34.8	+42	0.998 3443	6 14	17 19
12	470.5	1 18 54.269		197 48 50.5	+40	0.998 0012	6 16	17 17
13	471.5			190 40 20.5	+34	0.997 7774 2846	6 17	17.15
14	472.5	1 26 47.376	910-2	199 47 40.0	+25	0.997 4928	6 19	17 13

	50		Oh We	ltzeit		
Tag	Wochentag	Zeitgleichung Wahre Zeit <i>minus</i> Mittlere Zeit	Scheinbare Rektaszension	Scheinbare Deklination	Halbe Durch- gangs- Dauer StZt.	Halb- messer
1947	100	m s	h m s		S	
Okt. 14	Di	+13 41.24 s	13 13 6.14 m s	- 7 44 43.2 <sub>22 24.7</sub>	65.03	16 3.92
15	Mi	13 55.31	13 10 48.02	8 7 7.9 22 17.8	65.10	16 4.19
16	Do	14 8.85.	13 20 31.03	8 29 25.7	65.18	16 4.47
17 18	Fr Sa	14 21.84	13 24 15.19	8 51 36.4 22 3.0	65.27 65.35	16 4.75 16 5.02
19	So	14 34.26 11.84 14 46.10	13 27 59.33 13 31 44.04	9 13 39.4 9 35 34.4	65,44	16 5.02 16 5.30
	200	11.25	3 45.31	21 40.0	STORY OF THE	
20	Mo Di	+14.57.35	13 35 29.35 3 45.92	- 9 57 21.0	65.53	16 5.58
21	Mi	15 7.98	13 39 15.27 13 43 1.82 3 46.55	10 18 58.8 21 28.5 10 40 27.3	65.63	16 5.86 16 6.14
23	Do	15 17.99 15 27.35 9.36	13 43 1.82 13 46 49.01 3 47.19	II I 46.2 21 18.9	65.82	16 6,41
24	Fr	15 36.05	13 50 36.87 3 47.86	11 22 55 1	65.92	16 6.68
25	Sa	15 44.08	13 54 25.30 3 40.52	11 43 53.6 20 58.5	66,02	16 6,96
26	So	7.34	3 49.21	20 47.0	66.12	16 7.22
27	Mo	+15 51.42 15 58.06	13 58 14.60 14 2 4.52 3 49.92	-12 4 41.2 12 25 17.7 20 36.5	66,23	16 7.49
28	Di	16 3 07 5.91	14 5 55.16 3 50.64	12 45 42.7	66.33	16 7.75
29	Mi	16 9,15	14 0 46 54 3 51.30	13 5 55.7	66.44	16 8.02
30	Do	16 13 58 4.43	14 13 38.67 3 52.13	13 25 56.4	66.55	16 8,28
31	Fr	16 17.24 2.88	14 17 31.56 3 52.89 3 53.68	13 45 44.4	66,66	16 8.53
Nov. 1	Sa	+16 20 12	14 21 25.24	—14 5 19.3	66.78	16 8.79
2	So	16 22.20 2.08	14 25 10 72 3 54:48	14 24 40.8 19 21.5	66.89	16 9.03
3	Mo	16 23.47	14 29 15.00 3 55.28	14 43 48.4	67.00	16 9.27
_4	Di	16 23.91 0.39	14 33 II.II 3 56.II	15 2 41.8 18 38.9	67.12	16 9.52
5	Mi	16 23.52	14 37 8.00	15 21 20.7	67.24	16 9.76
6	Do	16 22.29 2.08	14 41 5.85 3 57.79	15 39 44.5 18 8.4	67.35	16 10.00
7	Fr	+16 20.21	14 45 4.48	-I5 57 52.Q	67.47	16 10.23
8	Sa	16 17.28 2.93	14 49 3.97	16 15 45.5 17 52.6	67.59	16 10.47
9	So	16 13.49 3.79	14 53 4.32 4 0.35	16 33 21.9 17 19.7	67.71	16 10.69
IO	Mo	16 8.84	14 57 5.53	16 50 41.6	67.83	16 10.93
İI	Di	10 3.33 6.37	15 1 7.59 4 2.92	17 7 44.1	67.95	16 11.15
12	Mi	15 50.90	15 5 10.51	17 24 29.1	68,07	16 11.38
13	Do	+15 49.74 8.07	15 9 14.29 4 4.62	-17 40 56.2 1 16 8.8	68.19	16 11.60
14	Fr	15 41.67	15 13 18.91	17 57 5.0	68.31	16 11.83
15	Sa	15 32.70	15 17 24.38	18 12 54.9	68.43	16 12.05
16	So	15 23.01	15 21 30.09	18 28 25.0	68.55	16 12,26
17 18	Mo Di	15 12.42 15 1.00	15 25 37.84 4 7.97	18 43 36.7 14 51.1 18 58 27.8	68.66 68.78	16 12.48 16 12.70
		12.23	15 29 45.81 4 8.79	14 30.7	1000000	
19	Mi	+14 48.77	15 33 54.60	-19 12 58.5 <sub>14 9.9</sub>	68.89	16 12.91
20	Do	14 35.72	15 38 4.21	19 27 8.4	69.01	16 13.12
21	Fr	14 21.86	15 42 14.02	19 40 57.2 13 27.3	69,12	16 13.33
22	Sa So	14 7.21 13 51.77	15 46 25.83 4 12.00	19 54 24.5 13 5.4	69.23	16 13.53 16 13.73
23 24	THE STATE OF	+13 35.56	15 50 37.83 15 54 50.60 4 12.77	-20 20 I 3.0 12 43.1		16 13.92
24	1 1110	1 1 2 3 3 3 3 3 0	1 3 34 30.00	20 20 13.0	9.45	10 15.92

			0 h	Weltzeit		Market State	Auf-	Unter-
Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp.   kurzp. Gl.   Gl.	Mittleres Äquinok 1947.0 Länge	tium  Breite	R	gang	gang o Breite h Länge
1947	2432	h m s	in o.oor		in 0.01		h m	h m
Okt.14	472.5	1 26 47.376	-910 - 2	199 47 46.6	+25	0.997 4928	6 19	17 13
15	473.5	1 30 43.930	912 - 7	200 47 14.8 59 26.2	+15	0.997 2073 2861	6 20	17 11
16	474.5	1 34 40.484	913-10	201 46 45.0 59 30.2 59 32.1	+ 4	0.996 9212	6 22	17 9
17	475.5	1 38 37.038	914-10	202 40 17.1	- 9	0.996 6346	6 24	17 7
18	476.5	1 42 33.592	916-7	203 45 51.0	-22	0.996 3478	6 25	17 5
19	477.5	1 46 30.147	917 - 3	204 45 26.8 59 37.6	-34	0.996 0611 2863	6 27	17 3
20	478.5	1 50 26.701	-918+ 2	205 45 4.4	-43	0.995 7748	6 28	17 1
. 21	479.5	1 54 23.255	919+ 6	206 44 43.7 59 39.3	-51	0.995 4893 2845	6 30	16 59
22	480.5	1 58 19.809	920+10	207 44 24.8 59 41.1	-58	0.995 2048 2831	6 32	16 57
23	481.5	2 2 16.364	921+12	208 44 7.7 59 44.5	-61	0.994 9217 2814	6 33	16 55
24	482.5	2 6 12.919	921+11	209 43 52.2	-62	0.994 6403	6 35	16 53
25	483.5	2 10 9.473	922+ 9	210 43 38.5 59 48.1	-60	0,994 3608 2772	6 37	16 51
26	484.5	2 14 6,028	-923+ 4	211 43 26 6	-55	0.004 0836	6 38	16 49
27	485.5	2 18 2.583	923 - 1	212 43 16.4 59 49.8	-48	0.993 8090 2746	6 40	16 47
28	486.5	2 21 59.138	924 - 8	213 43 8.0 59 51.6	-37	0.993 5372 2687	6 42	16 46
29	487.5	2 25 55.693	924-13	214 43 1.4 59 53.4	-24	0.993 2685 2653	6 43	16 44
30	488.5	2 29 52.248	924-17	215 42 56.7 59 55.3	-II	0.993 0032 2618	6 45	16 42
31	489.5	2 33 48.803	925-17	216 42 53.9 59 57.2 59 59.2	+ 4	0.992 7414 2584	6 47	16 40
Nov. 1	490.5	2 37 45.358	-925-14	217 42 53.1	+19	0 002 4830	6 48	16 39
2	491.5	2 41 41.914	925 - 9	218 42 54.3	+.34	0.992 2282 2548	6 50	16 37
3	492.5	2 45 38.469	925 - 1	219 42 57.5	+47	0.991 9767 2515	6 52	16 35
4	493.5	2 49 35.025	924+ 7	220 43 3.0 5.4	+58	0.001 7285 2402	6 53	16 34
. 5	494.5	2 53 31.580	924+13	221 43 10.5 60 7.5	+66	0.991 4833 2425	6 55	16 32
6	495.5	2 57 28.136	924+16	222 43 20.2 60 ir.8	+70	0.991 2408 2400	6.57	16 30
7	496.5	3 1 24.692	-923+15	223 43 32 0	+71	0.991 0008	6 58	16.29
8	497.5	3 5 21.248	922+12	224 42 45 0 00 13.9	+69	0.990 7629 2379	7 0	16 27
9	498.5	3 9 17.804	922+ 6	225 44 1.0	+64	0.990 5272 2357	7 2	16 26
10	499.5	3 13 14.360	921 0	226 44 10.8 00 17.9	+56	0.990 2933	7 3	16 24
11	500.5	3 17 10.916	920 - 6	227 44 39.6 60 19.8 60 21.7	+46	0.990 0611	7 5	16 23
12	501.5	3 21 7.473	919 - 9	228 45 1.3 60 23.4	+34	0.989 8305 2306	7 -6	16 21
13	502.5	3 25 4.029	-918-10	220 45 24 7	+22	0.989 6016	7 8	16 20
14	503.5	3 29 0.586	917-8	220 45 40 7	+10	0.080 3745	7 10	16 19
15	504.5	3 32 57.142	916-5	231 46 16.4 60 28.1	- 2	0.989 1492 2253	7 11	16 17
16		3 36 53.699		232 40 44.5	-13	0.988 9259	7. 13	
17	506.5	3 40 50.256	913+ 5	233 4/ 14.1	-21	0.088 7050 2209	7 15	16.15
18		3 44 46.813		234 47 45. 1 60 32.2	-28	0.988 4867 2183	7 16	16 14
19	508.5	3 48 43.370	-909+11	235 48 17.3 60 33.6	-32	0.088 2712	7 18	16 12
20	ACCOUNTS OF THE PARTY OF THE PA	3 52 39.927		236 48 50.9 60 33.6 337 40 35 50 34.8	-34	0.988 0588	7 19	16 11
21		3 56 36.484		237 49 25.7 60 36.1	-32	0.987 8498 2090	7 21	16 10
22		4 0 33.042		238 50 1,8 60 36.1	-28	0 087 6444 2054	7 23	16 9
				60 27 2	ALTONOMIA	2014	2.0	
23	512.5	4 4 29.599	902 0	239 50 39 0 60 37.2	-21	0.987 4430	7 24	16 8

Oh Weltzeit										
T	ag	Wochentag	Zeitgleichung Wahre Zeit <i>minus</i> Mittlere Zeit	Scheinbare Rektaszension	Scheinbare Deklination	Halbe Durch- gangs- Dauer StZt.	Halb- messer			
19	47		m s	h m s		s				
Nov	. 24	Mo	+13 35.56 s	15 54 50.60 m s	-20 20 13.0 12 20.7	69.45	15 13.92			
	25	Di	13 18.58	15 59 4.13	20 32 33.7	69.56	15 14.11			
	26	Mi	13 0.85	10 3 18.42	20 44 31.4	69.66	16 14.29			
25.00	27	Do	12 42.38	16 7 33.45	20 50 5.9	69.76	15 14.48			
3 5 10	28	Fr	12 23.17	16 11 49.22 4 16.49	21 7 16.9 10 47.2	69.86	16 14,65			
	29	Sa	12 3.24 20.64	16 16 5.71 4 17.19	21 18 4.1	69,96	16 14,82			
	30	So	+11 42.60	16 20 22.90	-21 28 27.1	70.05	16 14.98			
Dez.	Í	Mo	II 2I.27 21.33	16 24 40.79 4 17.89	21 38 25.8 9 58.7	70.15	16 15.14			
	2	Di	10 59.25	16 28 59.37 4 19.23	21 47 59.7 9 33.9	70.24	16 15.30			
	3	Mi	10 36.58	16 33 18.60 4 19.88	21 57 8.7 8 43.8	70.32	16 15.45			
	4	Do	10 13.26	16 37 38.48	22 5 52.5 8 18.2	70.40	16 15.59			
	5	Fr	9 49.31	16 41 58.98 4 21.11	22 14 10.7 7 52.5	70.48	16 15.73			
4.	6	Sa	+ 9 24.77	16 46 20.09	-22 22 3.2	70.56	16 15.86			
	7	So	8 50 65 25.12	16 50 41.77	22 29 29.6 7 26.4	70.64	16 15.99			
	8	Mo	8 33.98 25.67 26.19	16 55 3.99	22 36 29.8 7 0.2	70.71	16 16.11			
	9	Di	8 7.79 26.67	16 59 26.73 4 22.74	22 43 3.5 6 33.7	70.78	16 16,24			
	10	Mi	7 41.12	17 3 49.96 4 23.69	22 49 10.4 5 39.9	70,84	16 16.36			
	11	Do	7 14.00 27.55	17 8 13.65 4 24.11	22 54 50.3 5 12.7	70.90	16 16.47			
	12	Fr	+ 6 46.45	17 12 37.76	-23 0 3.0	70.95	16 16.59			
	13	Sa	6 18 51 27.94	17 17 2.25 4 24.49	23 4 48.5 4 45.5	71.00	16 16.70			
	14	So	5 50.22	17 21 27.10	23 9 6.4 4 17.9	71.04	16 16.80			
06- 1	15	Mo	5 21 62 28.00	17 25 52.26 4 25.10	23 12 56.6 3 50.2	71.08	16 16.91			
	16	Di	4 52.73	17 30 17.71 4 25.45	23 16 19.0 3 22.4	71.12	16 17.00			
	17	Mi	4 23.59 29.14	17 34 43.41 4 25.70	23 19 13.6 2 54.6	71.15	16 17.09			
	<b>-</b> 0	De	Marine Marine				-60			
	18	Do Fr	+ 3 54.24	17 39 9.32 4 26.08	-23 21 40.1 23 23 28 5 1 58.4	71.18	16 17.18			
1313	20	Sa	3 24.72 2 55.05	17 43 35.40 17 48 1.63 4 26.23	23 23 38.5 1 30.2 23 25 8.7	71.21	16 17.27			
500	21	So	2 25.28 29.77	17 52 27 06 4 20.33	23 26 10.7	71.24	16 17.43			
	22	Mo	I 55.44 29.84	17 56 54.36 4 20.40	23 26 44.4 0 33.7	71.25	16 17.50			
	23	Di	1 25 56 29.88	18 1 20.70 4 26.43	23 26 49.8 0 5.4	71.26	16 17.56			
			29.88	4 26.44	0 22.8					
	24	Mi	+ 0 55.68	18 5 47.23 4 26.41	-23 26 27.0 o 51.1	71.26	16 17.63			
(ESIV)	25	Do Fr	+ 0 25.83 29.79	18 10 13.04	23 25 35.9	71.25	16 17.68			
	26	Sa	- 0 3.96 29.70	18 14 39.99 4 26.25	23 24 10.0	71.24	16 17.73			
	27 28	So	O 33.66 29.58		23 22 29.1 23 20 13.4 2 15.7	71,23	16 17.77			
	29	Mo	I 3.24 29.43 I 32.67	18 27 58 37 4 25.99	22 17 20 7	71,19	16 17.84			
	29		29.25	4 25.81	25 1/ 29./ 3 11.8	7-1.19	.,,,,,			
	30	Di	- 2 I.92 29.05	18 32 24.18	-23 14 17.9	71.16	16 17.86			
	31	Mi	2 30.97	18 30 49.79	23 10 38.2	71.13	16 17.88			
	32	Do	- 2 59.80 <sup>28.83</sup>	18 41 15.17	-23 6 30.8 <sup>4</sup> 7.4	71.09	16 17.89			

	200		0 h	Weltzeit			Auf-	Unter-
Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp.   kurzp. Gl.   Gl.	Mittleres Äquinok 1947.0 ' Länge	tium  Breite	R		gang Breite Länge
1947	2432	h m s	in 0.001		in ő.or		h m	h m
Nov.24	513.5	4 8 26.157	<b>-900</b> - 6	240 51 17.4 60 39.6	- 12	0.987 2458 1926	7 26	16 7
25	514.5	4 12 22.714	89712	241 51 5/.0 60 40 7	- I	0.987 0532	7 27	16 6
26	515.5	4 16 19.272	895-17	242 52 37.7 60 41.9	+ 13	0.986 8655	7 29	16 5
27	516.5	4 20 15.830	893-19	243 53 19.6	+ 27	0.986 6830	7. 30	16 5
28	517.5	4 24 12.387	890-16	244 54 2.7	+ 41	0.986 5059	7 32	16 4
29	518.5	4 28 8.945	888 –11	245 54 47. I 60 45.7	+ 56	0.986 3344 1659	7 33	16 3
30	519.5	4 32 5.503	-885 - 4	246 55 32.8 60 47.1	+ 69	0.986 1685 1603	7 34	16 2
Dez. 1	520.5	4 36 2.061	882+ 5	247 50 19.9	+ 81	0.986 0082	7 36	16 2
2	521.5	4 39 58.619	880+12	248 57 8.3	+ 90	0.985 8534	7 37	16 1
3	522.5	4 43 55.178		244 1/ 10.2	+ 95	0.985 7039 1445	7 38	16 1
4.	523.5	4 47 51.736	and the same of th	250 58 49.4	+ 97	0.985 5594 1398	7 40	i6 o
5	524.5	4 51 48.294	871+14	251 59 42.1 60 54.1	+ 96	0.985 4196	7 41	16 0
. 6	525.5	4 55 44.853		253' 0 36.2 254 1 31 6 60 55.4	+ 91	0.985 2843	7 42	15 59
7	526.5	4 59 41.411		-J- J 60 -6 m	+ 84	0.985 1531	7 43	15 59
8	527.5	5 3 37.969		255 2 28.3	+ 75	0.985 0259	7 44	15 59
9	528.5			250 3 20.2	+ 64	0.984 9024	7 46	15 58
10		5 11 31.086		257 4 25.2	+ 51	9.984 7825	7 47	15 58
11	530.5	5 15 27.645	852 - 8	258 5 25,2 61 1.0	+ 39	0.984 6661	7 48	15 58
12	531.5	5 19 24.204	-849 - 5	259 6 26.2 61 1.9	+ 27	0.984 5530 1096	7 49	15 58
13	532.5	5 23 20.763	846-1	260 7 28.1 61 1.9	+ 16	0.984 4434 7062	7 50	15 58
14	533.5	5 27 17.321	842+ 4	261 8 30.8	+ 7	0.984 3372	7 50	15 58
15	534.5	5 31 13.880		202 9 34.1	- I	0.984 2347	7 51	15 58
16	535.5	5 35 10.439		263 10 38 1	- 6	0.984 1359	7 52	15 58
17	536.5	5 39 6.998	832+11	264 11 42.5 61 5.0	- 9	0.984 0410 908	7 53	15 59
18	537.5	5 43 3.557	-828+10	265 12 47.5 61 5.3	- 10	0.983 9502 866	7 54	15 59
19	538.5	5 47 0.115		266 13 52.8	- 7	0.983 8636 820	7 54	15 59
20	539.5	5 50 56.674		207 14 58.4	- I	0.983 7816	7 55	16 0
21	540.5	5 54 53.233	818 - 4	268 16 4.4 61 6.1	+ 7	0.983 7044 722	7 56	16 0
. 22	541.5	5 58 49.792		269 17 10.5 61 6.4	+ 17	0.983 6322 670	7 56	16 1
23	542.5	William St.		270 18 16.9 61 6.4	+ 29	0.983 5652 613	7 57	16 1
24	543.5	6 6 42.910	-807 -19	271 19 23.4 61 6.7	+ 43	0.983 5039	7 57	16 2
25	544.5	0 10 39.409	804-19	272 20 30. I 61 6.9	+ 57	0.983 4485	7 58	16 2
26		6 14 36.028		273 21 37.0 61 7.0	+ 71	0.083 3004 491	7 58	16 3
27		6 18 32.587		274 22 44.0 61 7.3	+ 84	0.983 3567 427 360	7 58	16 4
28		6 22 29.145	793+ I	275 23 51.3 61 75	+ 95	0.983 3207	7 58	16 4
29	548.5	6 26 25.704	790+ 9	276 24 58.8 or 7.8	+104	0.983 2913 227	7 59	16 5
30		6 30 22.263		277 26 6.6	+109	102	7 59	16 6
31		6 34 18.822		278 27 14.7	+112	0.983 2523	7 59	16 7
32	551.5	6 38 15.381	-779+16	279 28 23.3	+111	0.983 2422	7 59	16 8

Ор	Mit	tle	res Äquinokt	i u n	1 1947.0	
Weltzeit	X	ΔX	Y	ΔY	Z	ΔZ
1947		960		100		
Jan. c		+1	-0.891 684 + 2 502 +277	0	-0.386 721 +121	+3
1	0.166 349 17 262 54	<b>—</b> 5	0.889 092 + 2 592 277	+4	0.385 596 125 120	0
2	0.183 557 17 149 59	-3	0.886 223 275	+1	0.384 351 1 245 119	<b>—3</b>
129 6 10 3	0.200 706	+2	0.883 079 273	-ı	0.382 987	-3
• 4	0.217 792	+1	0.879 002 2600 273	+3	0.381 504 1 601 118	<b>—5</b>
5	0.234 809 16 944 73	+2	0.875 972 3 961 271	+1	0.379 903 1718 117	<u>_5</u>
$\epsilon$	+0.251 753+16 865 - 79	-4	-0.872 011 +270 0.867 780 + 4 231 268	+1	-0.378 185 +118 0.376 349 116	+2
7	0.268 618 84	-5		-1	0.376 349 1 952 116	-3
8	0.285 399 16 694 87	+2	0.863 281 4 499 267	_I	0.374 397 2 067 115	<u>-5</u>
5	0.302 093	+1	0.858 515	+3	0.372 330 2 183 116	+1
IC	0.318 694 76 504 97	+2	0.853 482	-4	0.370 147	—I
II	0.335 198 16 400 104	-4	0.848 185 5 560 263	-3	0.367 850 2 412 115	+4
12	+0.351 598 +16 293 -107	+3	-0.842625 + 5823 + 263	+3	-0.365 438 +113	0
13	0.367 891 16 181 112	+2	0.830 802 6 882 200	0	0.362 913 2 638 ri3	.+1
14	0.384 072 16 062 119	-4	0.830 719 6 242 259	+2	0.360 275 2 750 112	0
15	0.400 134	—I	0.824 377 6 700 257	+3	0.357 525 2 862 112	+2
16	0.410 073	0	0.817 778 6 855. 250	+5	0.354 663	<b>-</b> 4
17	0.431 884 15 677 134	-2	0.810 923 7 108 253	+1	0.351 691 3 082 110	-2
18	+0.447 561 -138	+3	-0.803 815 +250 0.706 457 7 358 250	-3	-0.348 600 ·+108	-4
19		0	0.796 457 7 608 250	+4	0.345 419 3 299 109	+4
20	0.478 495 15 395 148	+1	0.788 849 246	-1	0.342 120	+2
21	0.493 742	-3	0.780 995	-3	0.338 714 3 511 105	-2
22	0.508 835	<b>—</b> 5	0.772 898 8 220 242	+2	0.335 203 3 616 105	+1
23	0.523 709 14 770 164	-3	0.704 559 8 577	-I	0.331 587 3 720 104	+1
24	+0.538 539+14 603	+4	-0.755 982 + 8 812 +235	2	-0.327 867 <sub>+3 821</sub> +101	-4
25	0.553 142 14 430 174	-1	0.747 170 0 045 -33	0	0.324 046 3 923 102	+4
26	0.507 571	+4	0.738 125 228	-3	0.320 123 99	, 0
27	0.581 823	+4	0.728 852	+2	0.310 101 4 120 98	0
28	0.595 893 186	+5	0.719 352	-3	0.311 981	+3
29	0.009 777	+4	0.709 630 9 941 219	-3	0.307 704 4 312 95	+1
30	+0.623 471 -r95	_r	-0.699 689, +215	-4	-0.303 452 + 93	+1
31	0.636 970 198	0	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	+1	0.299 047 4 498 93	+5
Febr.	0.050 271 202	0	0.679 164 208	-3	0,294 549	+1
7	0.003 370 205	+2	0.000 507 10 782 205	-2	0,209 901	Ò
	0.070 204 209	+2	0.057 805	2000	0.285 284	-1
, 4	0.688 949 12 473 212	+2	0.040 821	-1	0.280 520 4 704 86	0
1	+0.701 422 -216	+1	-0.635 639 <sub>+11</sub> 377 +195	+2	-0.275 670 + 85	+2
•	0.713 679 12 039 218	+5	T7 560	+3	0.270 735 4 933 82	-2
	0.725 718 11 816 223	0	0.012 003	7.700	0,205 718 82	+4
	0.737 534	+4	0.000 936	-	0.200 019 5 170 80	+3
	0.749 125 230	0	0.588 993	-4	0.255 440 79	+4
10	+0.760 486 -232	1+5	-0.576 869 <sup>+12 124</sup> +178	1 -5	0.250 182 + 77	+1

△ X, △ Y, △ Z sind in Einheiten der 7. Dezimale gegeben.

Ор	Mittleres Äquinoktium 1947.0									
Weltzeit	X	$\Delta X$	<b>Y</b>	ΔY	Z	12				
1947										
Febr. 10	+0.760 486 +11 129 -232	1-5	-0.576 869 +12 302 +178	-5	-0.250 182 + 77	+				
11	0.771 615	+3	0.564 567 12 476 174	<b>—5</b> .	0.244 847 5 410 75	+				
12	0.782 508 10 653 240	0	0.552 091 12 647 171	+1	0.239 437 5 485 75	+				
13	0.793 161 243	+2	0.539 444	+4	0.233 952 72	56				
14	0.803 571 246	+4	0.526 629 12 077	-3	0.228 395 75	-				
15	0.813 735 9 915 249	+3	0.513 652 13 136 159	+2	0.222 767 5 696 68	200				
16	+0.823 650 + 9 661 -254	-4	-0.500 516 +156	+5	-0.217 071 + 68	+				
17	0.833 311 2 406 255	+2	0.487 224 150	-r	0.211 307 5 829 65	1.9				
18	0.842 717 9 147 259	-2	0.473.782 13 442 146	<u>-1</u>	0.205 478 5 893 64	+				
19	0.851 864	-3	0.460 194 13 731 143	+4	0.199 585 5 954 61	303				
20	0.860 749 265	-3	0.440 403	0	0.193 031 6 015 61	+				
21	0.869 369 8 353 267	+1	0.432 595 14 001 133	+1	0.187 616 6 072 57	1 +				
22	+0 877 722 -260	+2	-0.418 594 +129	+3	-0 181 544 + 56	+				
23	0 885 806	-4	0.404 464 130 123	-2	0.175 416 54	+				
24	0,893 617 7 811 275	-3	0.390 211 14 253 119	-2	0 160 234 6 102 51	+				
25	0 001 153 / 530 275	+3	0.375 830 14 372 113	-4	0.163 001 0 233 50	+				
26	0.908 414 7 261 279	-4	0.361 354 14 405 111	+4	0.156 718 203 48	1				
27	0.015 306 0 982 280	5	0 346 758 14 590 103	<b>-4</b>	0.150 387 6 331 45					
28	+0.922 098 -282	-4	14 699 0.332 059 +100	0	-0.144 OII					
März 1	0.928 518 6 420 282	0	0 317 260 +14 799 05	+1	0.144 011 0.137 592 41	100				
2	0.034 656 285	-3	0 302 366 14 894 90	+2	O T2T T22 0 400 20					
3	0.940 509 5 53 284	+3	0.287 382 14 984 86	+4	0 124 633 499 37					
4	0.946 078 5 509 287	-3	0.272 312 15 070 82	+5	0 118 007 530 26	+				
5	0.051 360 5 282 287	0	0 257 160 15 152 76	0	O TIT 525 0 572					
. 6	4 995 +0.956 355, —289		15 220	1.2	0 004	200				
ALCO TO THE REAL PROPERTY.	0.961 061 4 706 289	—2 ⊥2	-0.241932 + 15301 + 73 $0.226631 + 15301 + 68$	+3	-0.104 921 0.098 285 636 30	1				
7 8	0.965 478 4 417 290	+3+4	0.211 262 15 369 64	+2 +3	0 000	+				
9	0.969 605 4 127 292	+3	0.195 829 15 433 60	+3	0 0093.					
10	0.973 440 3 835 292	+4	0.180 336 15 493 55	+1	0.084 926 6 718 25	+				
11	0.976 983 3 543 294	-2	0.164 7.88 15 548 50	-2	0.071 465 743					
	3 249		15 598	16.067	0 704	726				
12	+0.980 232 -295	-2	0.149 190 + 15 645 + 47	+2	-0.064 70I +6 784 + 20					
13	0.983 180 295	0	0.133 545 15 686. 41	-2	0.057 917 6 803 19	+				
14	0.985 845 2 362 297	<u>-5</u>	0.117 859 15 723 37	-2	0.051 114 6 818	Vo				
15	0.988 207 2 064 298	-3	0.102 136 32	<del>-4</del>	0.044 296 6 832					
16	0.990 271 297	+5	0.000 301 75 782 27	_5	0.037 464 6 844					
17	0,992 038 1 469 298	+4	0.070 599	-5	0.030 620 6 854 10	+				
18	+0.993 507' - 170 -299	0	-0.054 795 + 18 0.038 073 13	+2	-0.023 766 <sub>+6 862</sub> + 8	+				
19	0.994 677	<b>-</b> 5	TE 825	+5	0.016 904 6 867 5					
20	0.995 547	-2	0.023 138 15 843 8	+.5	0.010 037 6 871 4	+				
.21	0.990 117 299	+4	$\begin{array}{c} 0.023 \ 138 \\ -0.007 \ 295 \\ +0.008 \ 550 \\ \end{array}$		-0.003 166 6 872 + 1	+				
22	0.996 388 299	+5	+0.008 550 - 2	10	+0.003 706 872 0 +0.010 578 - 4	+				
23	+0.996 360 -300	-2	+0.024 393 - 8	+1	+0.010 578 - 4	160				

△ X, △ Y, △ Z sind in Einheiten der 7. Dezimale gegeben.

Ор		Mit	tle	res Äquinokt	i u n	1 1947.0	Vail.
Weltz		X	ΔX	Y	ΔY	Z	ΔZ
194	7		E I		- 1 - 1		15.4
März	23	+0.996 360 328 328	-2	+0.024 393 8	+1	+0.010 578 +6 868 - 4	-5
	24	0.996 032 628 300	-3	0.040 228	+4	0.017 446 6 862 6	-4
	25	0.995 404 925 297	+4	0.050 051	0	0.024 308 6 856 6	+4
	26	0.994 479	0	0.071 850	+3	0.031 104 6 845 11	-4
	27	0.993 250	-2	0.087 039	I	0.038 009 6 824 11	+1
	28	0.991 736	0	0.103 394 15 723 32	-2	0.044 843 6 819	-4
	29	+0.989 921 -2 110 -295	<b>—</b> 5	+0.119 117 +15 685 - 38	-4	+0.051 662 - 15	+2
	30	0.987 811 293	-3	0.134 802	+4	0.058 466 6 785 19	-3
110	31	0.985 408 292	-1	0.150 440	+5	0.005 251 6 765 20	0
April	1	0.982 713 2 984 289	+3	0,100 045	-2	0.072 010	+3
	2	0.979 729 3 274 290	<u>-5</u>	0.181 593	-5	0.078 759	+3
	3	0.976 455 3 274 288	-4	0.197 086 15 434 59	-4	0.085 479 6 693 27	-4
	4	+0.972 893 - 3 847 -285	+3	+0.212 520 +15 371 - 63	-3	+0.092 172 - 27	+2
	5	0.969 046 285	0	0.227 891	-2	0.098 838 6 627 29	+2
	6	0.904 914	-2	0.243 195	-3	0.105 475 6 606 31	0
	7	0.900 498	+2	0.258 428	<del>-4</del>	0.112 081 6 573	-2
	8	0.955 801 282	<u>-4</u>	0.273 585	-I	0.118 054 6 528 35	_I
	9	0.950 822 4 979 278	+2	0.288 663 14 993 85	<b>—</b> 3	0.125 192 6 502 36	+4
	10	+0.945 565 - 5 536 -279	-3	+0.303 656	+5	+0.131 694 - 38	+4
	II	0.940 029 5 817 275	+4	0.318 502	+4	0.138 158 40	+3
	12	0.934 218	—I	0.333 376	-2	0.144 582 6 382 42	+2
	13	0.928 132 6 359 273	<del>-4</del>	0.348 093	<b>—</b> 3	0.150 964 6 339 43	+3
	1.4	0.921 773 6 630 271	-2	0.362 709 14 511	-2	0.157 303 6 293 46	-3
	15	0.915 143 6 899 269	0	0.377 220 14 401 III	<u>5</u>	0.163 596 6 245 48	<u>-3</u>
	16	+0.908 244-7 166-267	I	+0.391 621 -114	-3	+0.169 841 - 48	+2
	17	0.901 078 7 427 265	-3	0.405 908	+1	0.170 038 6 745 52	4
	18	0.893 047 263	<del>-4</del>	0.420 077	+4	0.182 183 53	-3
	19	0.885 953 7 955 261	<del>-4</del>	0.434 124 13 920 127	+4	0.188 275 6 037 55	+1
	20	0.877 998 7 955 257 0.869 786 8 212 255	+3	0.448 044 13 789 131 0.461 833 136	+3	0.194 312 56 0.200 293 59	+5
	21	0 407	+1	13 053	+2	5 922	+3
	22	+0.861 319 - 8 720 -253	-2	+0.475 486 +13 514 -139	+5	+0.206 215 +5 862 - 60	+3
	23	0.852 599	+2	0.489 000 13 370 144	+4	0.212 077	-2
	24	0.843 631	-5	0.502 370	+5	0.217 870	0
	25	0.834 416 9 458 243	-2	0.515 593	-2	0.223 011	+2
	26	0.824 958 9 696 238	+4	0.528 664 12 915	-4	0.229 281 5 602 68	-3
	27	0.815 262 9 932 236	-2	0.541 579 12 758 157	+4	0.234 883 5 533 69	-2
	28	+0.805 330 -10 165 -233	<b>-5</b>	+0.554 337 +12 595	-2	+0.240 416 +5 463 - 70	. —2
	29	0.795 105	-4	0.500 932	+1	0.245 879 5 301 72	4
Ma:	30	0.784 771	-3	0.579 302	+3	0.251 270 74	-4
Mai	1	0.774 151 10 842	+1	0.591 624 12 090 172	0	0.250 507 73	+4
	2	0.763 309 219	+3	0.603 714 + 11 916 + 0.615 630 - 177	+5	0.201 031 77	-3
	5	+0.752 248 -215	+4	+0.615 630 -177	+4	+0.266 998 - 76	+1

△X, △Y, △Z sind in Einheiten der 7. Dezimale gegeben.

- Oh	M i	ttle	eres Äquinokt	iun	n 1947.0	
Weltzeit	X	$\Delta X$	Y	$\Delta Y$	Z	ΔZ
1947	1818 15 3				Constant of the state of	-
Mai :	+0.752 248 -11 276 -215	+4	+0.615 630 -177	+4	+0.266 998 - 76	+1
2 3 3		-4	0.627 369	+1	0.272 089 +5 091 79	<b>—</b> 5
	0.729 483 11 699 210	<b>-</b> 4	0.638 927 11 275 183	+3	0.277 101	-4
	0.717 784	+2	0.050 302	+3	0.282 033	+1
	0.705 880 203	—I	0.661 491	-1	0.286 885	-1
	0.693 773 12 306 199	0	0.672 490 10 808 191	+3	0.291.655 4 686 84	-4
	+0 681 467 -197	-4	+0.683 298 -196	-4	+0 206 241 -85	-ı
10	0.668 964 7503 192	0,	0.603 010 199	<b>—5</b>	0.300 042 4 001 85	+5
1:	0.656 269 12 884 189	+1	0.704 323 10 413 200	+3	0,305 458 4 516 87	+5
13	0.643 385 13 069 185	+1	0.714 536 10 009 204	0	0.309 887 4 429 88	+2
- I;	0.030 310 183	-4	0.724 545 9 801 208	-3	0.314 228 4 341 90	-2
IZ	0.617 064 13 252 178	+1	0.734 346 9 592 209	+4	0.318 479 4 160 91	<b>—</b> 3
1 9	+0.603 634 -174	+4	+0.743 938 -212	+4	+0 222 620 -02	4
16	0.590 030 170	+3	0.753 318 9 300 217	-4	0.326 707 94	-3
17	0.576 256 13 774 167	-4	0.762 481 217	+2	0 220 681 3 974	+3
18	0.562 315 13 941 163	-4	0 771 427 222	-3	0 224 561 3 05	+3
19	0.548 211 14 104 158	0	0 780 151 0 724 224	-2	0 228 246 3 705 08	-4
20	0.533 949 14 202 153	+4	0 788 657 0 226	—I	0 342 033 3 007 98	-3
2:	+0.519 534 -149	+3	+0.796 925 8 247	-2	+0.345 622 - 99	<b>—</b> 3
22	-14 504	0	0 804 070 043 232	<u>-4</u>	0 340 112 101	-5
2	0 400 261 14 709 120	+4	0 812 782 / 013 223	+1	0 250 507 3 309	—I
24	0.475 413 14 848 135	+4	0.820 363 7 500 235	+4	0 355 780 3 200 102	-2
25	0.460 430 14 983 130	-1-5	0 827 708 7 345	+3	0.358 975 3 100 103	-2
26	0.445 317 15 113 125	+4	0.834 816 7 108 238	+3	0 362 058 3 003 104	<u>-1</u>
27	15 230	0	+0.841 686 -241	1.000	+0.365 037 -104	+1
28		-2	0.848 315 6 629 241	-3 + 1	0.367 912 105	+2
29	15 470	+2	0.854 703 6 388 243	-2	0.370 682 2 770 105	+2
30	0.383 657 15 507 108	-2	0.860 848 6 145 244	2	0.373 347 2 5665 106	-I
31	0.367 062 15 095 103	+2	0.866 740 5 901 246	<u></u>	0.375 906 2 559 107	<b>—</b> 5
Juni	0.352 164 15 798 98	+3	0.872 404 5 055 246	I	0 378 358 452 107	-4
	15 090		5 409		2 345	33.
	-15 991	-2	+0.877813 $-249$ $0.882973$ $+0.882973$	<u>-4</u>	+0.380 703 -108 0.382 940 108	-4
	10 081	0	0.887 885 4 912 251	+4	0,385 069 108	0
5	10 107	$\begin{vmatrix} +1 \\ +2 \end{vmatrix}$	0.892 546 4 661 251	0 +4	0.387 090 2 021 109	+5 +4
		0	1 0 C 4 41U	+1	0.389 002 1 912 109	7
7	0 255 455 10 320 72	+5	0.890 950 253 0.901 113 4 157 254	+3	0.390 805	+3
	10 390	1 - 33	3 903		1 092	<b>-</b> 4
	16 467	+2	+0.905 016 -254	+4	+0.392 497 -110	0
9	0.222 590 16 520	+-5	0.908 665	<b>—</b> 3	0.394 0/9 1 471	—I
10	-6 -00	-2	0.912 057	-2	0.395 550	<b>—2</b>
11	16 646	<u>-4</u> ±2	0.915 192 258 0.918 069 260	-2	0.396 909 1 248	+5
	-16 695	+3		<u></u> -3	0.398 157 + 136 + 112	+3
100 M	+0.156 129 - 47	2	+0.920 686 -259	+2	+0.399 293 -113	-2

△ X, △ Y, △ Z sind in Einheiten der 7. Dezimale gegeben.

О <sub>Р</sub>	Mittleres Äquinoktium 1947.0								
Weltzeit	X	ΔX	Y		ΔY	Z	ΔZ		
1947				1311 332 9		Haralin Felden and Actor	14.00		
Juni 13	+0.156 129 -16 742 - 47	-2	+0.920 686	-259	+2	+0.399 293 -113	-2		
14	0.139 387 16 782 40	+5	0.023.044	2 358 262 2 096	-4	0.400 316 114	-		
15	0.122 605	+3	0.925 140	262 1 834	<b>—</b> 3	0.401 225	+.		
16	0.105 787	-2	0.926 974	1 572	+1	0.402 022 682 115	-		
17	0.088 937	+4	0.928 546	1 308	<b>—</b> 5	0.402 704 568 114	-		
18	0.072 Q62 16 897 22	<b>—3</b> .	0.020 854	264	-5	0.403 272 453	6 FE		
19	+0.055 165 -16 912 - 15	+2	+0.930 898	780 -264	-2	+0,403 725 -114	+		
20	0.038 253 16 922 10	+3	0.931 678	515 265	-2	0.404 064 339	+.		
21	0.021 331	0	0.932 193_	252 263	+4	0.404 288	+		
, 22	+0.004 404 16 028 - 1	<u>-4</u>	0.932 445	13	-2	9.404 398_ 115	1		
23	-0.012 524 <sub>16 022</sub> + 0	+2	. 0.932 432	276	+4	0.404 393	_		
24	0.029 440 16 913	-3	0.932 156	263 539	+3	0.404 273			
25	-0.046 359 -16 897 + 16	+4	+0.931 617_	-262 801	+1	+0.404 039 _ 348 -114			
26	0.003 250 200 19	-3	0.930,816	263	<b>—5</b>	0.403 691 462 114	-		
27	0.080 134	<b>—</b> 5	0.929 752	1 325	-1	0.403 229			
28	0.090 989 16 825 30	+3	0.928 427	200 1 585	+2	0.402 054 688 113	1/4 E		
29	0.113 814 16 703 32	—I	0.920 842	1 846 201	-3	0.401 966 801 113			
30	0.130 607 16 754 39	+4	0.924 996	2 104	+3	0.401 165 914	8 3		
Juli 1	-0.147 361 + 41 0.164 074 46	-4	+0.922 892	-259	-4	+0:400 251 -112	+		
2		-4	0.020 520	2 363 2 622	<b>—</b> 5	0.399 225 1137	+		
3	0.180 741	+1	0.017 007	2 878	+4	0.398 088 1 240 112	+		
4	0.197 357 76 561 55	+2	0.915 029	256 3 134	+3	0.396 839 1 360 111	+		
5	0,213 918 16 501 60	+5	0.911 895	3 391	-2	0.395 479 1 470	+		
6	0.230 419 16 437 64	+3	0.908 504	3 645	+4	0.394 009 1 581	1		
, 7	-0.246 856 -16 369 + 68	0	+0.904 859	-254 3 899	+4	+0.392 428 -1 691 -110	- 1		
, 8	0.203 225	+1	0.900 960	3 699 253 4 152	+4	0.390 737 1 801 110	-		
9	0.279 521 16 210 77	—I	0,890 808	4 404	+3	0.388 936	+		
10	0.295 7.40	+1	0.892 404	4 656	0	0.387 026	+		
11	0.311 877	-2	0.887 748	4 906 250	+2	0.385 008			
12	0.327 928 15 960 91	-3	0,882 842	5 155	+3	0.382 880 2 235 107	1		
13	-0.343 888 -15 865 + 95	<b>—</b> 5	+0.877 687	-249	—т	+0.380 645 -208	+		
14	0.359 753 15 765	—I	0.872 283	5 404 5 650	+3	0 378 302 343 107	+.		
15	0.375 518 15 659 106	+4	0.800 033	5 896 246	-3	0.375 852 2 450 106	+		
16	0.391 177	+2	0.860 737	6 141 245	-5	0.373 296 2 662 106	+		
17	0.400 720	-2	0.854 596	6 383	Ö	0.370 634	-		
18	0.422 161 15 315	+3	0.848 213	6 623	+3	0.367 866 2 872 104			
19	-0.437 476 +125	+4	+0.841 500	-230	-2	+0.364 004 -104	-		
20	0.452 666 15 190 120	+1	0.834 728	237	-4	0.362 018 103			
.21	0 467 727 15 001	-3	0.827 629	7 000	+4	0 258 020 3 079 707	+		
22	0.482 655 14 928 138	+1	0.820 297	7 332 232	0	0.355 759 3 180 IOI	+		
23	0.497 445	+3	0.812 733_	7 564 229 7 793	—I	0 252 478 3 201	+		
24		-3	+0.804 940	193 -227	0	+0.349 098 - 98	+		

AX, AY, AZ sind in Einheiten der 7. Dezimale' gegeben.

Ор	100	M i	ttle	res Äquinokt	iun	1947.0	
Weltz	zeiţ	X	ΔX	Y	ΔY	Z	1.Z
194	17.	A CONTRACTOR OF THE PARTY OF TH					3-1
Juli	24	-0.512 092 +145	-3	+0.804 940 -227	0	+0.349 098	+3
	25	0.526 504 151	7 5 W 2 4 1	- 8 020	+3	0.345 620 3 478 98	-3
	26	0 540 045 14 351 153	-5	0.788 676 8 244 221	+3	0,342 044 3 570 97	-3
	27	0.555 I'43 14 198 158	—I	0.780 211 8 465 220	-3	0.338 371 3 073 04	+4
0,200	28	0.569 183	0	0.771 526 8 685 217	-1	0.334 604 3 767 94	+3
	29	0.583 062 13 713	+2	0.762 624 8 902 213	+4	0.330 743 3 86x 93	+1
	30	-0.596 775 + 168	-4	+0.753 500 -213	-3	±0 326 780 - 02	0
	31	0.610 320 172	T OTHER	0.744 181 209	0	0.322 743 90	+1
Aug.	I	0.623 603 13 373 176	100	0.734 644 9 537 206	+3	0.318 607 4 130 00	
	2	0 636 800 13 197 180	2000	0 724 001 9 743	-2	0.314 381 4 226 89	-5
	3	0 640 007 13 017 182	1000 - 20	0.714 053 9948	—I	0.310 066 4 315 87	0
	4	0.662 742 12 648 187	+5	0.704 803	+4	0 305 664 4 402 86	+3
		12 040	+5	+0.694 455		4 488	
	5	0.687 848 194	+4	0.683 910 545	0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	+4
	7	0 700 170	SUNGER!	0.673 171 10 739	+2	0.291 946 4 657 83	+3
200	8	0 712 180 201	- Tal	0.662 241 10 930 189	+1	0.287 206 4 740 81	+5
	9	0 724 047 205	E 4 10 37 4	0.651 122 185	+2	0 282 285 4 821	0
	10	0.735 700 207	-2	0.630 818 11 304 184	-2	0.277 483 4 902 79	-1
		11 455	200	11 488	Sasa	4 981	1000
	11	-0.747 164 +212	-2	+0.628 330 -179	+5	+0.272 502 -5 060 - 79	-3
	12	0.758 407 11 028 215 0.769 435 219	-4	0.616 663	+3	0.267 442 5 136 76	+4
	13	10 009	-4	0.604 819 12 018	+1	0,262 306 5 211 75	+2
	15	0.780 244 10 587 222 0.790 831 226	-5 -2	0.592 801 12 188 170 0.580 613 167	0	0.257 095 5 286 75	-4
	16	0.801 192 231	+3	0.568 258 12 355 163	-2 o	0.251 809 5 358 72 0.246 451 71	+1
	30.30	10 130	88215	12 518		0.240 451 5 429 71	0
	17	-0.811 322 - 9 898 +232	<u>-5</u>	+0.555 740 -12 677 -159	0	+0.24I 022 -5 498	+2
	18	0.821 220 9 662 236	4	0.543 063 12 833 156	+4	0.235 524 - 66 68	+1
	19	0.830 882 9 423	-4	0.530 230 12 984 151	+2	0.229 958 5 6ar 65	+4
	20	0.840 305 9 182 241	<del>-5</del>	0.517 240 13 131	+4	0.224 327	0
	21	0.849 487 8 937 0.858 424 8 602 246	0	0.504 115 13 274	+4	0.218 631 5 757 61	+5
	22	0 091	-1	0.490 841 13 414	-1	0.212 874 5 818 61	0
	23	-0.867 II5 - 8 441 +250	+4	+0.477 427 -135	+1	+0.207 056 -5 877 - 59	-2
	24	0.875 550 251	-1	0.463 878 13 681 132	+1	0.201 179 57	0
1	25	0.883 746 253	<b>—3</b>	0.450 197	+4	0.195 245	+2
100	26	0.891 083 250	+1	0.436 389 13 932 124	0	0.189 256 6 043 54	-2
SEAL T	27	0.899 364 258	.0	0.422 457	—I	0,103 213 6 005 52	0
	-28	0.906 787 7 164 259	-3	0.408 405	—I	0.177 118 6 145 50	. +4
	29	-0.013 O51 +262	Ó	+0.394 237 -14 280 -112	—ı	+0.170 973 48	+4
	30	0.020 853 264	+2	0.374 457	-4	0.104.780 47	0
999	31	0.027 401 030 265	0	0.365 568 14 309 104	+1	0 158 540 240 46	-3
Sept.	1	0.933 864 6 373 268	+1	0.351 075 14 493 101	—1	0.152 254 43	+3
1872	2	0.939 969 269	-2	0.336 481 14 594 96	+2	0.145 925 6 329 43 0.145 925 -6 371 42	+4
	3	-0.945 805 5 °30 +271	-4	+0.321 791 -94	-4	+0.139 554 -40	+5

AX, AY, AZ sind in Einheiten der 7. Dezimale gegeben.

0 <sup>h</sup>	13	Mit	tle	res Äquinokt	iun	1 1947.0	
Weltze	it	X	ΔX	Y	ΔY	Z	ΔZ
1947	2					Marine Branch Marine	6.6
Sept.	3	-0.945 805 +271	-4	+0.321 791 94	-4	+0.139 554_6 40	+5
oopt.	4	0.051 370 5 505 273	<del>-4</del>	0.307 007 88	+2	0.133 143 411 38	+5
	5	0.056 662 5 292 274	-5	0.202 135 14 872 86	-5	0.126 604 449 38	-2
	6	0.961 680 5 018 277	+2	0 277 177 14 958 81	-3	0 120 207 0 487	+4
	7	0.966 421 4 741 279	+4	0.262 138 15 039 77	-4	0.113 686 6 521 34	-2
	8	0.970 883 4 462 280	+3	0,247 O22 15 116 73 15 189 73	<b>—5</b>	0.107 131 6 555 6 587 32	<b>—</b> 3
	9	-0.975 065 +283	+5	+0.231 833 69	-4	+0 100 544 - 20	+2
	10	0.978 964 283	-2	0.216 575 64	-2	0.093 928 6616 29	· —5
	II	0.982 580 3 616 287	+4	0.201 253 15 382 60	-2	0.087 283 6 645 26	-3
	12	0.985 909 3 329 286	-4	0.185 871	-I	0.080 612 6 695 24	+1
	13	0.988 952 3 043 289	—I	0.170 434 15 437 51 15 488 51	—I	0.073 917 6 717	+3
	14	0.991 706 2 464 290	—ı	0.154 946 15 533 45	+5	0.067 200 6 737 20	+4
	15	-0.994 170 +291	<b>—</b> 1,	+0.139 413 - 40	+4	+0.060 463 - 17	+5
	16	0.996 343 292	—I	0.123 840 37	-3	0.053 700 754 16	0
	17	0.998 224 1 881 292	-2	0.108 230 15 610 30	+2	0.046 939 6 770	<b>—</b> 3
1 3/1	18	0.999 813 1 589 293	0	0.092 590 27	-3	0.040 155	0
	19	1.001 109 294	+2	0.076 923 15 688 21	+1	0.033 360 6 795	-2
	20	I.002 III 1 002 293 709	<del>-4</del>	0.061 235 15 704	+3	0.026 555 6 811 6	+3
Stylls	21	-1.002 820 +293 1.002 326 416	<b>—</b> 5	+0.045 531 - 13	-2	+0.019 744 -6 817 - 6	-3
	22	1,003 236 294	0	0.029 814 7	+4	0.012 927 6 820 3	+1
	23	1,003 358 294	+1	+0.014 090 15 726 2	+4	+0.006 107 6 821 - 1	+2
26 0	24	1.003 186 465 293	-3.	-0.001 030 + 1	-2	-0.000 714 6 820 + 1	+1
	25	1.002 721 294	+1	0.017 301	—I	0.007 534	+1
	26	1,001 962 1 051 292	-3	0.033 080 15 708	+2	0.014 351 6 813 4	—I
Market - A	27	-1.000 911 +294	+4	-0.048788 - 15693 + 15 $0.064481 - 20$	+2	-0.021 164 <sub>-6 806</sub> + 7	+3
AFRICA.	28	0.999 566 1 345 292	+1		0	0.027 970 6 797	+3
A 185	29	0.997 929 1 930 293	+5	0.080 154	<b>—</b> 5	0.034 707	+1
	30	0.995 999	—I	0.095 804 15 622 28	T-2	0.041 554	+1
Okt.	I.	0.993 778	+1	O.111 420 15 580 33	+2	0.048 328 6 760 14	<u>-1</u>
	2	0.991 265 2 804 291	-2	0.127 015	0	0.055 088 6 745	-5
	3	0.988 461 +290	-3	$-0.142567_{-15512}^{+40}$	-4	-0.061 833 + 19	+2
	4	0.985 367 3 094 291	+3	0.158 079 15 466 46	0	0 068 550 10	-2
	5	0.981 982 3 305 290	+3	0.173 545	+1	0.075 266 6 707 22	0
	6	0.978 307 2 064 289	+2	0.188 961 15 362 54	.0	0.081 951 6 662 23	-1
	7	0.9/4 343	<del>-1</del> -5	0.204 323 15 303 59	+1	0.088 613 6 626 26	+2
	8	0.970 089 4 542 288	→1	0.219 626 15 239 64	+5	0.095 249 6 609 27	0
	9	-0.965 547 + 4 820 +287	<del>-4</del>	-0.234 865 <sub>-15 170</sub> + 69	+5	-0.101 858 + 30	+2
	10	0.960 718 5 116 287	+1	0.250 035 15 007 73	0	0.108 437 6 548 31	+1
	II	0.955 602 5 402	+3	0.265 132 78	3	0.114 985 6 513 35	+4
	12	0.950 200 . 68 205	+3	0.280 151	<b>—</b> 3	0.121 498 6 478 35	-4
	13	0.944 513	<b>—</b> 3	0.295 087 -14 848	-2	0.127 976 6 440 38	-4
	14		+4	-0.309 935 + 93	-3	-0.134 416 + 40	<b>—</b> 3
- V	100	V 47 sind in Finheiter	300 60			China	

 $\Delta X$ ,  $\Delta Y$ ,  $\Delta Z$  sind in Einheiten der 7. Dezimale gegeben.

O <sup>h</sup>	M i	ttle	res Äquinokt	iun	n 1947.0	
Weltzeit	X	$\Delta X$	Y	AY	Z	ΔZ
1947			PART ROOM	-		1 2 3
Okt. 14	-0.938544 $+ 6251$ $+ 282$	+4	-0.309 935 + 93	-3	-0.134 416 + 40	-3
15	0.932 293 6 527	+4	0.324 690 14 658 97	-4	0.140 816 6 358 42	-1
16	0.925 702	+2	0.339 348 14 555 103	+2	0.147 174 6 313 45	+4
17	0.918 953 7 084 275	-4	0.353 903 14 448 107	+3	0.153 487 6 366 47	+:
18	0.911 869 273	-2	0.308 351	+4	0.159 753 6 210 47	-:
19	0.904 512 7 620 272	+2	0.382 687	-2	0,165 972 6 168 51	+:
20	-0.896 883 + 7 897 268	-4	-0.396 908 +121	+4	-0.172 140 + 53 0.178 255 53	+
21		-4	0.411 008 125	+2	5 6 060	_
22	0.880 823 8 427 264	0	0.424 983 13 975 128	-4	0.184 317 6 005 57	+
23	0.872 396	0	0.438 830	-5	0.190 322 57	-
24	0.863 708	+3	0 452 544	-5	0.196 270 5 888 60	
25	0.854 701 250	+3	0.466 122 13 436 142	+3	0.202 158 5 827 61	-:
26	-0 845 558 +253	0	-0.470 558 +144	— <b>I</b>	-0.207.085 + 63	-
27	1 0.830 102 250	-2	0.492 850 149	+4	0.213 740 64	
28	0.826 396 9780 249	+2	0 505 003 13 143 153	+3	0 210 440 5 760 67	+:
29	0.816 441 9 955 244	-5	0.518 983 12 835	-3	0,225 082 5 633 67	-2
30	0.806 242 10 199 242	-3	0.531 818 12 675	+1	0.230 648 5 566 70	:
31	0.795 801 10 441 240	+1	0.544 493 12 511 164	+2	0.236 144 5 496 71	(
Nov. 1	-0.785 120 +237 0 774 202 234	+2	-0.557 004 +166	-2	-0.241 569 + 72	
2	0.774 202 234	+2	0 560 340 172	+4	0.246 922 -5 353 74	
3	0.763 050 11 152 232	+5	0.581 522 173 174	+1	0.252 201 5 279 76	-
4	0.751 666 11 384 228	+1	0.593 521 11 999 179	+4	0.257 404	-
5	0.740 054 828 226	+3	0.605 341	+1	0.202 530 79	-
. 6	0.728 216 12 060 222	+2	0.616 979 11 451 187	+5	0.267 577 4 967 80	-
7	-0.716 156 +220 0.703 876 +12 280 216	+5	-0.628 430 -11 261 +190	+2	-0.272 544 <sub>4 884</sub> + 83	+.
8	0.703 876 12 496 216	+1	0.639 691 11 066 195	+5	0.277 428	+
9	0.691 380 12 707 211	-3	0.650 757	-2	0.282 227 4 714 85	-
10	0.078 073	+3.	0.661 626	+2	0.286 941	-
II	0.665 757 72 727 205	+4	0.672 292 205	-3	0.291 568	9
12	0.652 636 13 321 200	+1	0.682 753 10 252 209	<u>-4.</u>	0.296 105 4 447 90	-
13	-0.630 315 +196	0	-0.603.005 +213	0	-0.300 552 + 92	-
14	0.625 798 13 31/ 192	+3	0 703 044 216	+1	0.304 907 4 355 95	+:
15	0.612 080 13 709 188	+4	0.712 867 9 623 220	+2	0.309 167 4 166 94	
16	0.598 192 13 897 183	0	0.722 470 9 603 9 381	-3	0.313 333 4 069 97	1
17	0.584 112 14 080 178	-3	0.731 851 9 156 225	-3	0.317 402 3 971 98	(
18	0.569 854 14 432 174	-3	0.741 007 8 928 228	+1	0.321 373 3 872 99	-1
19	0 555 422 + 770	-п	$-0.749935_{-8696}^{+232}$	+4	-0.325 245 +100	-:
20	0 540 820 14 002 164	-5	0.758 631 233	-2	0 320 017 102	(
21	D 526 054 14 /00 760	-1	0 767 004 236	-2	0.332 687 4 568 102	
22	0 511 108 14 920	+4	0.775 321 7 988 239	+1	0.336 255 3 568 104	+1
23	0.496 045 15 003 150	-4	0.783 309 7 748 240	-2	0.339 719 3 360 104	-1
24	-0.480 812 +15 233 +146	-3	-0.791 057 -7 740 +244	+3	-0.343 079 +106	1-1-2

AX, AY, AZ sind in Einheiten der 7. Dezimale gegeben.

Ор		Mit	tle	res Äquinokt	iun	1 1947.0	83(6)
Welt	zeit	X	ΔX	Υ .	ΔY	Z	AZ
194	17		- 33			STATE OF STREET	
Nov.	24	-0.480 812 +146	-3	-0.791 057 +244	+3	-0.343 079 +106	+4
	25	0.465 433 142	0	0.798 561 7 504 245	—I	0.346 333 3 54 107	+3
	26	0.449 912 15 521 137	I	0.805 820 7 259 247	-2	0.349 480 3 147 106	-2
	27	0.434 254	0	0.812 832 6 763 249	-2	0.352 521 3 041 109	+5
	28	0.418 403	-4	0.819 595 6 511 252	+1	0.355 453	+3
	29	0.402 545 16 043	+4	0.826 106 6 259 252	-3	0.358 276 2 714 109	+1
	30	-0.386 502 +118	-2	-0 832 365 +256	+3	-0.260,000 +112	+5
Dez.	I		+4	0.838 368 257	+2	0 363 502 110	-4
	2	0.354 064 16 386	-3	0.844 114 5 746 260	+3	0 366 084 2 492 113	-1
	3	0.337 678 16 492 106	+4	0.849 600 5 486 260	-4	0.368 463 2 379 113	-3
	4	0.321 186 16 593	+5	0.854 826	+3	0.370 729 2 152	<b>—</b> 3
1	- 5	0.304 593 16 689 96	+3	0.859 788 4 696 266	+5	0.372 881	-2
	6	0.087.004	r	-0.864.484 +267	0	-0.374 918 +115	-4
	7	0 271 125 86	+4	0.868 013 - 4 429 269	-1	0 376 840 118	+3
	8	0 254 260 16 865	+5	0 873 073 4 160 271	I	0 378 644 116	-2
	9	0 227 214 74	-2	0 876 062 3 889 272	-2	0 380 332	+5
	10	0.220 294 17 020 69	<u>-1</u>	0.880 579 3 017 274	+3	0.381 901 1509	+3
	11	0.203 205 17 153 64	+3	0.883 922 3 343 276	+5	0.383 351 1 450 119	0
	12	-0 186 052 + 59	+5	-0.886 989 +276	+1	-0.384 682 +120	—I
	13	0.168 840 52	_r	0.889 780 277	+1	0.385 803 120	—I
	14	0 151 576 17 264 46	-3	0.892 294 2514 279	+3	0.386 984	+4
	15	0 134 266 17 310 42	+3	0.894 529 2 235 278	-2	0 387 054 970 121	+4
	16	0 116 014 17 352 35	+2	0.896 486 1 957 280	+1	0.388 803	+5
	17	0.099 527 17 387 31	+5	0.898 163 1 677 279	-3	0.389 530 727 606 121	-2
	18	-0.082 109 + 23	-4	-0.899 561 +281	+2	-0.390 136 +121	-3
	19	0.064 668 + 17 441 20	+2	0.900 678 1 117 280	-I	0.390 621 485 123	+3
1000	20	0.047 207 17 401	-4	0.901 515 837 280	-I	0.300 083 362 121	-4
	21	0.020 734 17 473 8	0	0.002 072 557 281	+1	0.301 224 241 121	-5
	22	-0 012 253 17 401 + 3	+1	0.902 348 276 280	<b>—</b> I	0.391 344 123	+3
3	23	+0.005 231 17 404 - 4	-4	0.002 344 4 280	-2	0 301 341 3 120	-4
	20070	17 400		204		123	+4
	24 25	+17 472	-2 -2	-0.902 060 +279	<del>-4</del>	-0.391 218 +122 0.390 973 + 245	+5
	26	0.040 183	-3 + 2	0.901 497 842 279 0.900 655 842 280	+I   +5	0.390 973 122	T5
	27	0.075 081	—I	0 800 533 1 122 277	<del>-3</del>	0.390 119 487 120	—4 —5
	28	0 002 407 17 410 28	+1	0 808 134 1399 279	+1	0 280 512 007 121	0
	29	0.100 885 17 300 34	-3	0.806 456	-4	0 288 784 728 120	0
		17 354	100	I 954	200	040	4200
De la constante de la constant	. 30	+0.127 239 +17 310 - 38	0	-0.894 502 + 2 232 +278	+4	-0.387 936 + 968 + 120	+1
	31	0.144 555 +0.161 827 -49	-2	0.892 270 277	+5	0.386 968 120 -0.385 880 +120	+3
	32	TO. 101 827 - 49	—I	-0.889 761 2 309+277	+4	-0.385 880 +120	1 +3

1 X, 1Y, 1Y sind in Einheiten der 7. Dezimale gegeben.

Frühlingsäquinoktium 21. März 11<sup>h</sup> 13<sup>m</sup> Herbstäquinoktium 23. Sept. 21<sup>h</sup> 29<sup>m</sup> Sommersolstitium 22. Juni 6 19 Wintersolstitium 22. Dez. 16 43

Erdnähe 4. Juni 3<sup>h</sup> Erdferne 5. Juli 10

			0 p A	Veltzeit	
Тад	-	Aberration	Parallaxe	Mittlere Länge $L \odot$	$ \begin{array}{c} \textbf{MittlereAnomalie} \\ \textbf{\textit{M}} \odot \end{array} $
194	7				/.
Jan.	-1	20.82	8.95	277.8404	355.81
	+9	20.82	8.95	287.6969	5.67
	19	20.80	8.94	297.5534	15.52
	29	20.78	8.93	307.4099	25.38
Febr.	8	20.75	8.92	317.2663	35.24
	18.	.20.71	8.90	327.1228	45.09
	28	20.66	8.88	33619793	54.95
März	10	20.61	8.86	346.8357	64.80
Maiz	20	20.55	8.84	356.6922	74.66
	30	20.50	8.81	6.5487	84.52
	30	20.30		0.3407	04.52
April	9	20.44	8.79	16,4052	94.37
	19	20.38	8.76	26.2616	104.23
	29	20.33	8.74	36.1181	114.08
Mai	9	20.28	/ 8.72	45.9746	123.94
	19	20.23	8.70	55.8311	133.80
				<b>多</b> 下是在5天外的	
	29	20,20	8.68	65.6875	143.65
Juni	8	20.17	8.67	75.5440	153.51
	18	20.15	8.66	85.4005	163.36
4 4	28	20.14	8.66	95.2570	173.22
Juli	8	20.13	8.66	105.1134	183.08
	18	00 74	8.66	114.9699	192.93
	28	20,14	8.67	124.8264	202.79
Arro		20.18	8.68	134.6828	212.64
Aug.	7	20,16	8.69	134.5323	222.50
	17	20,22	8.71	154.3958	232.36
	27	20,20	8./1	154.3950	232.30
Sept.	6	20.31	8.73	164.2523	242,21
	16	20.36	8.75	174.1087	252.07
	- 26	20.42	8.78	183.9652	261.92
Okt.	6	20.48	8.80	193.8217	271.78
	16	20.53	8.83	203.6782	281.64
	Charles St.		0.0		
	26	20.59	8.85	213.5346	291.49
Nov.	5	20.65	8.88	223.3911	301.35
	15	20.69	8.90	233.2476	311,20
	25	20.74	8.92	243.1041	321.06
Dez.	5-	20.77	8.93	252,9605	330.92
	15	20.80	8.94	262.8170	340.77
	25	20.81	8.95	272.6735	350.63
AL SERVICE	35	20,82	8.95	282,5299	0,48
			STATE OF THE STATE	STATE OF THE PARTY OF	1996

		Oh Weltzeit										
Tag		Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite	Alter				
1947	,	h m s		- , - , -	, ,		0	d				
Jan.	0	0 16 44 m s	- 3 31.0	56 57.3	15 32.6	2.439	-4.890	7.5				
	1	I 4 33 47 49	L 2 TT 2 5 42.2	57 47.7	15 46 3 13.7	15.710	-4.330	8.5				
5. 36	2	I 54 I4 49 41	+ 7 57.8 5 40.0	ER 41 1 53.4	16 00 14.0	29.366	3.512	9.5				
	3	2 46 57 52 43	+13 31 5 3 33.1	59 33.9	16 15.3 12.9	43.432	-2.462	10.5				
3 1 6 -	4	3 43 43 61 19	+18 30.1 4 50.0	60 21.3 47.4	16 28.2	57.900	-1.229	11.5				
	5	4 45 2 65 19	$+22\ 26.7$ $\frac{3\ 56.6}{2\ 27.3}$	60 57:9 20.6	16 38,2 5.6	72.724	+0.115	12.5				
	6	5 50 21	+24 54.0	61 18,5	16 43.8	87.810	+1.471	13.5				
1 3	7	6 57 46 66 44	+25 31.7 37.7	$61 19.8 \frac{1.3}{18.7}$	$16 \ 44.1 \ \frac{0.3}{5.1}$	103.019	+2.732	14.5				
	8	8 4 30 63 33	+24 14.8	61 I.I 36.5	16 39.0	118.188	十3.794	15.5				
	9	9 8 3 58 59	+21 15.7 2 59.1	00 24.0	16 29.1	133.149	+4.580	16.5				
	10	10 7 2 54 22	+16 59.1	59 35.1	10 15.0	147.761		17.5				
V 2	11	11 1 24 50 28	+11 52.6 5 6.5 5 31.6	58 38.1 58.8	16 0.1 16.0	161.927	+5.183	18.5				
	12	11 51 52	+ 6 21.0	57 30.3	15 44.1	175.606	+5.017	19.5				
	13	12 39 34 46 4	$+ 043.5 \frac{537.5}{528.8}$	56 43.4 55.9	15 28.8 15.3	188.804	+4.587	20.5				
	14	13 25 38 46 4 45 31	-445.3	55 53.9 49.5 41.2	15 15.3 11.2	201.567	+3.940	21.5				
	I 5.	14 11 9 45 54	- 9 54.2	55 12.7	15 4.1 8.7	213.966	+3.123	22.5				
	16	14 57 3 47 2	<b>—14 33.8</b>	54 40.8	14 55.4 6.1	226.082	+2.184	23.5				
	17	15 44 5 48 37	$-1835.2\frac{41.4}{314.2}$	54 18.4	14 49.3	238,003	+1.164	24.5				
	18	16 32 42 50 21	-21 49.4	54 5. I 5.2	14 45.7	249.808	+0.106	25.5				
	19	17 23 3	-24 7.7 I IA.5	53 59.9	14 44.3	261.573	-0.951	26.5				
	20	18 14 52 52 38	-25 22.2	54, 1.8	14 44.8	273.359	-1.966	27.5				
100	21	19 7 30	-25 2/.5 I 5.4	54 9.8	14 47.0	285.215	-2,899	28.5				
	22	20 0 7	-24 22.1	54 22.8	14 50.5	297.181	-3.711	29.5				
	23	20 51 52 50 21	$-22$ 8.5 $\frac{2}{3}$ $\frac{13.6}{15.2}$	54 40.2	14 55.2	309.283	-4.363	0,6				
1200	24	21 42 13 48 48	-18 53.3	55 I.2 24.7	15 0.0	321.539	-4.822	1.6				
	25	22 31 I	-14 40.1	55 25.9 28.3	15 7.7	333.963	<b>—5.060</b>					
	26	23 18 32	$-957.0_{518.2}$	55 54.2	15 15.4	346.567	<b>—5.058</b>	3.6				
	27	0. 5 21 46 56	- 4 39.4 5 35.6	56 26.2 35.6	15 24.1	359.369	-4.804	4.6				
	28	0 52 17 48 3	+ 0 56.2 5 40.2	5/ 1.0	15 33.8	12.389	-4.299	5.6				
de la late	29	I 40 20 50 16	+ 6 36.4 5 29.5	57 40.8	15 44.5	25.655	-3.556	6.6				
	30	2 30 36	+12 5.9	58 21.0	15 55.7	39.196	-2,600	7.6				
	31	3 24 7 57 34	+17 6.8	59 3.3	16 6.9	53.039	<b>─</b> 1.472	8.6				
Febr.	I	4 21 41	+21 17.5	59 42.0	16 17.5	67.198						
	2	5 23 24	+24 14.0	00 14.2	16 26.3	81.661						
	3	66 0	+25 34.3 0 28.8	00 35 0	10 32.2	96.381	the state of the s	11.6				
	4	7 34 17 64 37	+25 5.5 2 16.4	60 43.4 7.5	16 34.2 = 2.4	111.271		1,000				
	5	8 38 54 61 16	+22 49.1	60 34.7 25.0	16 31.8	126.205		13.6				
	6	0 10 10	+19 1.5	00 9.7	16 25.0	141.034	The second second					
	7	10 37 18 57 8		59 30.0	16 14.4	155.615						
	8	11 30 28	+ 8 35.0 5 32.9 + 8 35.0 5 48.3	50 42.1	10 1.2	169.826						
	9	12 20 29	+ 2 46.7 5 44.7 2 58.0 5 44.7	5/ 40.4	15 40.5	183.595		17.6				
	10	13 8 23 " 3"	2 50.0	56 54.5	15 31.9	196.897	+3.977	18.6				

1013	Obere Kulmination in Greenwich   0 <sup>h</sup> Länge, + 50° E										- 50° Br	eite
Tag		AR.	Ände- rung für 1 <sup>h</sup> westl. Länge	Dekl.	Ände- rung für 1h westl. Länge	Parallaxe	Zeit des Durch- gangs	Ände- rung für 1h westl. Länge	Auf- gang	Ande- rung für 1h westl. Länge	Unter-	Ände- rung für ih westl. Länge
194	7	h m s	s	0 /	( *) e		h m	m	h m	m	h m	m
Jan.	0	0 52 57	124	+ 0 48.2	+14.8	57.6	18 14.7	1.90	12 7	0.7		-
	1	I 43 43	130	+ 6 46.4	+14.9	58.5	19 1.4	2.00	12 25	0.7	0 37	3.2
	2	2 37 34	140	+12 35.7	+14.1	59.4	19 51.2	2.16	12 44	0.9	I 55	3.3
	3	3 35 46	152	+17 52.7	+12.1	60.3	20 45.3	2.36	13 7	I, I	3 16	3.5
	4	4 39 4	165	+22 7.8	+ 8.9	60.9	21 44.4	2.57	13 37	1.5	4 41	3,6
	5	5 47 I	174	+24 49.1	+ 4.4	61.3	22 48.3	2.73	14 18	2.0	6 7	3.4
	6	6 57 31	177	+25 31.8	- 0.9	61.3	23 54.7	2.77	15 15	2.7	7 26	3.1
	7		_		- 2	5	-	-	16 26	3.2	8 33	2.4
100	8	8 7 15	171	+24 9.2	- 5.9	61.0	I 0.3	2.67	17 48	3.5	9 24	1.8
	9	9 13 14	159	+20 56.5	- 9.9	60.3	2 2.2	2.48	19 12	3.5	10 0	1.3
	10	10 14 2	145	+16 23.2	-12.6	59.5	2 58.9	2.25	20 35	3.4	10 28	1.0
	ΙΙ	11 9 43	134	+11 0.7	-14.1	58.5	3 50.4	2.06	21 53	3.2	10 49	0.8
	12	12 1 16	125	+ 5 15.8	-14.5	57.5	4 37.9	1.91	23 8	3.0	11 7	0.7
	13	12 50 0	119	- o 31.3	-14.3	56.5	5 22.6	1.83		-	11 23	0.7
	14	13 37 13	117	<b>- 6 6.0</b>	-I 3.5	55.7	6 5.7	1.78	0 20	3.0	11 40	0.7
	15	14 24 6	118	—11 16.9	-12.3	55.0	6 48.6	1,80	1 30	2.9	111 57	0.8
	16	15 11 40	120	-1554.1	-10.7	54.5	7 32.1	1.84	2 39	2.9	12 16	0.9
	17	16 0 40	125	-19 48.0	- 8.6	54.2	8 17.0	1.91	3 47	2.8	12 39	I,I
	18	16 5T 30	130	-22 48.6	- 6.3	54.0	9 3.8	1.99	4 54	2.7	13 8	1.4
	19	17 44 13	134	-24 46.4	- 3.5	54.0	9 52.4	2.06	5 58	2.5	13 44	1.7
	20	18 38 18	136	-25 33.3	- 0.4	54.1	10 42.4	2,10	6 54	2.2	14 30	2.1
	21	19 32 53	136	-25 4.8	+ 2.8	54.3	11 32.9	2.10	7 43	1.8	15 26	2.5
	22	20 26 58	134	-2321.3	+ 5.8	54.5	12 22.9	2.06	8 22	1.5	16 29	2.7
1945.65	23	21 19 44	130	-20 28.3	+ 8.5	54.9	13 11.6	1.99	8 53	1.2	17 37	2.9
	24	22 10 49	126	-16 35.0	+10.8	55-3	13 58.6	1.93	9 18	1,0	18 48	3.0
	25	23 0 19	122	-11 53.1	+12.6	55.7	14 44.1	1.87	9 39	0.8	20 I	3,0
	26	23 48 45	120	- 6 35.1	+13.8	56.2	15 28.4	1.84	9 57	0.7	21 13	3.0
	27	0 36 58	121	- o 53.9	+14.5	56.8	16 12,6	1.85	10 14	0.7	22 26	3.1
100	28	1 26 3	125	+ 4 57.0	+14.6	57.5	16 57.6	1.91	10 30	0.7	23 41	3.2
	29	2 17 13	132	+10 42.0	+14.0	58.2	17 44.7	2.03	10 48	0.8		0-
	30	3 11 43	141	+16 2.5	+12.5	58.9	18 35.1	2,19	11 9	1.0	0 58	3.3
100	31	4 10 34	153	+20 35.4	+10.0	59.6	19 29.9	2.38	11 35	1.3	2 19	3.4
Febr.	I	5 14 8	164	+23 53.7	+ 6.3	60.2	20 29.3	2.57	12 9	1.7	3 41	3.4
THE PERSON NAMED IN	2	6 21 33	172	+25 31.0	and the same	60,6	21 32.6	2.69	12 56	2.3	5 2	3.2
	3	7 30 31	172	+25 10.1		60.7	The Part of the Late of the La	2.68	13 58	2.9	6 13	2.7 .
	4	8 38 3	165	+22 51.6		60.6		2.58	15 15	3.3	7 10	2. I
	5	NO THE REAL PROPERTY.		367	1	<u> </u>		_	16 39	3.5	7 53	1,6
	6	9 41 50	154	+18 54.0	-11.6	60.1	0 40.6	2.39	18 4	3.5	8 25	1.2
	7	10 40 56	142	+13 46.7		59.5	1 35.6	2.20	19 27	3.4	8 49	0.9
	8	11 35 40	132	+ 8 0.0		58.6	2 26,2	2.03	20 45	3.2	9 9	0,8
	9	12 27 1	125	+ 1 59.8	The second second	57.7	3 13.5	1.92	22 I	3.1	9 27	0.7
	10	the second second		- 3 53.7		56.8			23 13	3.0	9 43	0.7

			Oh Weltzeit										
Tag		Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite	Alter					
1947	1	h m s			a de la lacia	9	5113-59	d					
Febr.	10	12 8 22 m s	- 2 58.0	56 54.5	15 31.9	196.897	+3.977	18.6					
	11	13 55 14 40 51	- 8 24.6	56 4.7	15 18,3 13.0	209.754	+3.182	19.6					
	12	14 41 57	-13 21.7 4 57.1 4 18.1	55 21.9 32.8	15 6.6 11.7	222,222	+2.255	20.6					
	.13	15 29 20 48 36	-17 39.8	54 48.1 23.7	14 57.4 6.5	234.379	+1.247	21.6					
	14	10 17 50 50 7	-21 10.3 3 36.3 2 34.9	54 24.4	14 50.9 3.6	246.317	+0.202	22.6					
	15	17 8 3 51 31	-23 45.2 1 32.2	54 10.9 3.6	14 47.3	258.128	0,841	23.6					
	16	17 50 34	-25 17.4	54 7.3	14 46.3	269,903	-1.842	24.6					
	17	18 52 3 52 44	$-2541.1\frac{023.7}{047.3}$	54 12.7 5.4	14 47.8 3.6	281.722	2.766	25.6					
	18	19 44 47	-24 53.8	54 25.9 19.3	14 51.4	293.652	<b>—3.575</b>	26.6					
	.19	20 36 59	-22 50.4	54 45.2	14 50.0	305.747	-4.233	27.6					
200	20	21 28 4	-19 54.0 3 50.I	55 9.2	15 2.2	318.040	-4:704	28,6					
	21	22 17 45 48 23	-15 54.9 4 45.2	55 36.3 28.7	15 10.5 7.9	330.550	-4.959	29.6					
	22	23 6 8	-II 9.7 5 18.8	56 5.0	15 18.4 8.0	343.277	-4,973	0.9					
	23	23 53 39 47 21	- 5 50.9 F 30 T	56 34.4	15 26.4	356.213	-4.733	ì.9					
	24	041 0	- O 11.8	57 3.6	15 34.3	9.342	-4.241	2.9					
	25	1 29 2	+ .5 33.1	57 32.3	15 42.2	22.649	-3.512	3.9					
	26	2 18 43	+11 8.0	58 0.3 26.9	15 49.8	36.128	-2.578	4.9					
	27	3 10 58 55 36	+16 15.5 4 20.4	58 27.2	15 57.1 6.9	49.776	-1.483	5.9					
\$40 Kin	28	4 6 34 59 11	+20 35.9 3 12.6	58 52.5	16 4.0 6.2	63.601	-o.287	6.9					
März	Í	5 5 45 62 12	+23 48.5	59 15.2	16 10.2	77.608	+0.942	7.9					
	2	6 7 58 63 47	+25 33.8	59 33.5 11.9	10 15.2	91.796	+2.128	8.9					
	3	7 11 45 63 20	+25 38.4 1 39.1	59 45.4	16 18.4	106.144	+3.192	9.9					
	4	8 15 5 61 3 9 16 8	+23 59.3 +20 46.0 3 13.3	59 40./	16 19.3 1.9 16 17.4	120,605	+4.059 +4.666	10.9					
2 18 18	5	57 43	4 28.7	59 41.5 18.3	5.0	3-9-7176	5 3000	0.3376					
	6	10 13 51	+16 17.3	59 23.2	16 12.4	149.538	+4.972	12.9					
	7	11 8 4	+10 57.1	58 54.2	10 4.5	163.801	+4.964	13.9					
	8	11 59 19 49 6	+ 5 8.9 5 54.7	58 10.5	15 54.2 11.8	177.790	+4.655	14.9					
	9	12 48 25 47 54 13 36 19	$-045.8^{5}$	57 33.1 56 47.6 45.5	15 42.4 15 30.0	191.430 204.679	+4.084 +3.304	15.9					
	II	14 23 53 47 34	-1 1 47. I 17.8	56 3.6 44.0	15 18.0	217.537	+2.374	17.9					
		47 59	4 4u.z	39.3	10.7	1000	1 900 E/E/E	27/ 100					
1-12-18	12	15 11 52 48 59	-16 27.3 3 52.7	55 24.3 32.0	15 7.3 8.7	230.037	+1.351 +0.287	18.9					
	13	16 0 51 50 16 16 51 7	$-20\ 20.0$ $-23\ 16.8$ $2\ 56.8$	54 52.3 22.9 54 29.4	14 58.6 6.3	242.237 254.216	-0.77I	19.9					
	14	17 42 36	-25 10.4 1 53.6 -25 10.4 1 53	54 16.6	14 52.3 14 48.8 3.5	266.064	THE RESERVE OF THE PERSON NAMED IN						
41.56	16	18 35 0 52 24	$-25 55.7 \frac{0.45.3}{0.35.8}$	51 11 3 2.3	14 48.2 0.6	277.871	-2.720	22.9					
	17	19 27 40 52:40	-25 20.0	54 22.3	14 50.4	289.727	-3.540	23.9					
	5 53	52 17	1 30.5	1/.3	The State of the S	3 3 3 N V		4 6 7					
	18	20 19 57 51 20	-23 53.4 -21 0.7 2 43.7	54 39.6 55 40 25.3	14 55.1 6.9 15 2.0	301.715	-4.213 -4.706	24.9					
	20	22 1 25 8	-21   9.7   3   44.2   -17   25.5   3   6	55 4.9 31.4 55 36.3 37.2	15 10.5	313.903	DESCRIPTION TO BE	26.9					
	21	22 50 23 40 50	-12 49.9 4 35.6	56 11.5	15 20.1	339.063	5.031	27.9					
	22	22 28 22 48 10	- 7 34.2 5 15.7	56 48.0 30.5	15 30 I	352.073	-4.818	28.9					
	23	0 26 33 48 0	- I 51.5 5 42.7	57 23.4 35.4	15 39.7		-4.342						

220	Obere Kulmination in Greenwich 0 <sup>h</sup> Länge, + 50° Bre										eite	
Tag	でののの	AR.	Ände- rung für 1h westl. Länge	Dekl.	Ände- rung für it westl. Länge	Parallaxe	Zeit des Durch- gangs	Ände- rung für  h westl. Länge	Auf- gang	Ände- rung für 1 <sup>h</sup> westl. Länge	Unter- gang	Ände- rung für 1 <sup>h</sup> westl. Länge
1947		h m s	s				h m	m	h m	m	h + m	m
Febr. 1	0	13 16 12	121	<b>—</b> 3 53.7	-14.4	56.8	3 58.6	1.85	23 13	3.0	9 43	0.7
I	I	14 4 23	120	<b>- 9 25.6</b>	-13.2	55.9	4 42.8	1 84			10 0	0.7
I	2	14 52 37	121	-14 24.0	-11.6	55.2	5 26.9	1.85	0 25	2.9	10 19	0.8
I	3	15 4F 45	124	—I8 39.0	1000 1000	54.7	6 12.0	1.91	1 35	2.9	10 41	1.0
	4	16 32 21	129	-22 I.4	The second second	54.3	6 58.5	1.98	2 43	2,8	11 7	1.3
I	5	17 24 36	133	-24 22.3	- 4.5	54.1	7 46.7	2.04	3 48	2.6	11 41	1,6
1	6	18 18 19	1.36	-25 33.9	<b>— 1.5</b>	54.1	8 36.3	2.09	: 4 48	2.3	12 24	2.0
1	7	19 12 49	137	-25 31.0	+ 1.8	54.3	9 26.8	2.10	5 39	2.0	13 16	2.4
1	8	20 7 15	. 135	-24 11.8	+ 4.9	54.6	10 17.1	2.08	6 22	1.6	14 17	2.7
1	9	21 0 48	132	-21 39.6	+ 7.8	54.9	11 6,6	2.03	.6 55	1.3	15 25	2.9
2	05	21 52 54	128	ATTOCKED BY AND AND ADDRESS.	+10.3	55.4	11 54.6	1.97	7 22	1.0	16 36	3.0
2	IS	22 43 27	125	-1329.1	+12.3	55.9	12 41.1	1.91	7 44	0.8	17 49	3.0
7 2	22	23 32 48	122	<b>—</b> 8 14.5	+13.8	56.4	13 26.4	1.87	8 3	0.7	19 2	3.1
28955 2	23	0 21 36	122	- 2 32.0	+14.6	56.9	14 11.1	1.86	8 20	0.7	20 16	3.1
2	24	1 10 45	124	+ 3 23.1	+14.9	57.4	14 56:2	1.90	. 8 36	0.7	21 31	3.2
2	25	2 1 18	129	+ 9 14.5	+14.3	57.8	15 42.7	1.98	8 54	0.8	22 48	3.3
2	26	2 54 22	137	+14 43.8	STATE OF THE PARTY	58.3	16 31.7	2.11	. 9 13	0.9		-
2	27	3 50 56	146	+19 30.2	+10.7	58.8	17 24,1	2.27	9 36	I.I	0 8	3.3
	28	4 51 29	156	+23 10.3	+ 7.5	59.2	18 20.6	2.43	10 7	1.5	1 29	3.3
März	1	5 55 43	164	+25 20.9	The Part of the Party of the Pa	59.5	19 20.7	2.56	10 48	2,0	2 48	3.2
	2	7 2 6	167	+25 44.4	- 1.6	59.7	20 23:0	2.60	11 42	2.6	14 0	2.8
	3	8 8 21	163	+24 14.8	- 6.0	59.8	21 25.1	2.55	12 51	3.1	5 I	2.3
	4	9 12 12	155	+21 1.3	-10.0	59.7	22 24.9	2.42	14 11	3.4	5 48	1.7
	5	10/12 19	145	+16 25.4	-12.8	59.4	23 20.9	2.25	15 34	3.5	6 23	1.3
	6		- <u></u>		_	4			16 58	3.4	6 50	1.0
	7	11 8 33	136	+10 54.0	-14.6	58.9	0 13,0	2.10	18 18	3.3	7 11	0.8
	8	12 1 28	129	+ 4 53.7	Contract of the Contract of	58.2	1 1.9	1.98	19 36	3.2 .	7 29	0.7
	9	12 52 3	124	— I I2,2	-15.1	57-5	1 48.4	1.90	20 52	3.1	7 46	0.7
	10	13 41 23	123	- 7 4.6	-14.2	56.7	2 33.6	1.88	22 5	3.0	8 3	0.7
	II	14 30 27	123	-I2 28.2	-12.7	56.0	3 18.7	1.88	23 18	3.0	18 21	0.8
	12	15 20 6	125	-17 10.4	-10.7	55.3	4 4.2	1.92		-	8 41	0.9
	13	16 10 54	10/12/03/10/10	-2I O.	3750 000	54.8	4 51.0	1.98	0 29	2.9	9 6	1.2
	14	17 3 8	132	-23 49.5	TO STATE OF	54.4	5 39.1	2.03	I 37	2.7	9 37	1.5
	15	17.56 41	0.0015.0050	-25 29.5		A DESCRIPTION OF	6 28.6	2.08	2 39	2.4	10 16	1.8
	16	The second secon	W152913W	-25 55.4			7 18.9	2,10	3 34	2.1	11 4	2.2
	17	19 45 30		Committee of the Control of the Cont	+ 3.7	The second second	8 9.2	2.09	4 19	1.7	12 2	2.6
A STATE OF	18	20 39 18	133	-22 59.7	+ 6.7	54.8	8 59.0	2.05	4 56	1.4	13 8	2.8
	19	21 31 54	100000000000000000000000000000000000000	-19 45.1		No. of Concession, Name of Street, or other Persons, Name of Street, or ot	SOVERS OF TAXABLE	1.99	5 25	I.I	14 18	3.0
	20	22 23 7		CONTRACTOR OF THE PARTY OF THE			PARTY NAMED IN COLUMN TWO	1.94	5 49	0,9	.15 31	3.1
	21	23 13 13	the second	-10 24.9			11 20.7	1.90	6 8	0.8	16 45	3. I
	22	0 2 43		- 4 43.8		57.1	12 6.1	1.90	6 26	0.7	18 0	3.2
	23			THE RESERVE OF THE PARTY OF THE		57.7	12 51.8	1.92	6 42	0.7	19 17	3.2

			-7	Oh Welt:	zeit			
Тар	g	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite	Alter
194	7	h m s					0	d
März	23	0 26 33 m s	- I 51.5 5 54.6	57 23.4 32.1	15 39.7 8.8	5.356	-4.342	0.3
	24	I 15 10 50 8	+ 4 3.1	57 55.5	15 48.5	18.878	-3.614	1.3
	25	2 5 10	+ 9 52.3	58 22.7	15 55.9 5.8	32.595	-2.667	2.3
	26	2 57 48 52 30 3 53 22 55 34	+15 16.7 4 38.8	58 44.2 58 59.8	16 1.7 16 6.0 4.3	46,460	-1.550 -0.330	3.3
	27 28	3 53 22 58 47 4 52 9 58 47	+19 55.5 +23 27.4 26 55.5	10 08 10.0	16 8.7 2.7	60.431 74.476	+0.919	4.3 5.3
		01 31	2 0.1	4.4	1.3		P24	
	29	5 53 40 6 56 33 62 53	+25 33.5 +26 1.0 27.5	59 14.6	16 10.0	88.571	+2.118 +3.191	6.3
0.00	30	7 58 57 62 24	+26 I.O 1 13.8 +24 47.2	59 14.7 4.5	16 8.8	116.839	+4.069	7.3 8.3
April	I	8 59 13	+22 0.0 2 47.2	59 0.8 9.4	16 6.3 2.5	130.965	+4.699	9.3
35 41 55	2	0 56 22 57 9	+17 55.5 4 4.5	58 46.2 14.6	16 2,3	145.037	+5.043	10.3
	3	10 50 14 51 2	+12 54.2 5 1.3	58 26.1 25.7	15 56.8 7.0	159.004	+5.084	11.3
	4	11 41 16	+ 7 17 2	58 0.4	TE 40 8	172.807	+4.827	12.3
	5	12 30 16	$+ 124.7 \frac{552.5}{550.2}$	57 29.8 30 0	15 41.5	186.390	+4.300	13.3
	6	13 18 8 47 52 47 34	$-425.5_{531.9}^{330.2}$	56 55.7 34.1 35.8	15 32.2 9.3	199.703	十3.546	14.3
	7	14 5 42 48 3	- 9 57.4 4 59.8	50 19.9	15 22.4	212.718	+2,620	15.3
	8	14 53 45	-14 57.2 4 15.6	55 44.8	15 12.9.	225.429	+1.581	16.3
	9	15 42 49 50 21	-19 12.8 3 21.1	55 12.8 26.7	15 4.1	237.852	+0.487	17.3
	10	16 33 10 51 36	-22 33.9 2 18.3	54 46.1	14 56.9	250.027	-0.611	18.3
	II	17 24 40	-24 52.2 r 0.6	54 26.7	14 51.6	262.012	—I.667	19.3
	12	18 17 15 52 44	-26 I.8 a 1.9	54 16.2	14 48.7	273.879	-2.642	20.3
	13	19 9 59 52 19 20 2 18	-25 59.9 1 13.2 $-24 46.7$ 2 2 3 4	54 15.7 9.8 54 25.5	14 48.6 = 2.7 14 51.3	285.708 297.585	-3.500 -4.212	21.3
	15	20 53 37 51 19	-22 25.6 2 21.1	51 15 5	14.56 7 5.4	309.594	-4.748	23.3
	16	50 4	3 23.1	29.5	0.0		Carried and	
1000	17	21 43 41 22 32 33 48 4	-19 2.5 -14 45.0	55 15.0 55 52.3	15 4.7 10.2 15 14.9	321.815	-5.080 -5.180	24.3
	18	23 20 37 48 4	- 0 42 5 2·5	56 35.3	15 26.6 11.7	347.140	-5.028	26.3
	19	0 8 31 4/ 34	- 1 60 5 30.5	57 20.8 45.5	15 30.0	0.320	-4.609	27.3
	20	0 57 5 40 34	+ 1 50.9 6 0.9	58 5.4 44.0	15 51.2	13.853	-3.925	28.3
	21	1 47 14 52 40	+ 7 51.8 5 44 9	58 45.3 39.9	16 2.0 8.8	27.707	-2.996	29.3
	22	2 30 54	+13 36 7	59 17.4 21.8	16 10.8	41.824	—ı.866	0.8
	23	3 35 50 55 56	+18 42.4 5 5.7	59 39.2 10.5	16 16.7 5.9	56.129	-0.602	1.8
	24	4 35 10 52 28	+22 44.3 2 35.7	59 49.7 0.4	16 19.6		+0.711	2.8
	25	5 57. 4 63 58	+25 20.0	59 49.3	10 19.5	84.974	+1.982	3.8
	26	0 41 44 63 26	+26 14.0	59 39.0	10 10.8	99.364	+3.125	4.8
	27	7 45 10 61 0	+25 22.7 2 28.2	59. 22.5	10 12.2	113.653	+4.065	5.8
	28	8 46 10 57 29	+22 54.5	59 0.4 25.4	16 6.1	127.803	+4.748	6.8
Mic.	29		+19 0.5	58 35.0	15 59.2	1.41.785	+5.140	7.8
Mai	30	9 43 39 53 49 10 37 28 50 41	T14 19.0	58 7.6 28.5	15 51.8	155.580	+5.230	8.8
mai	2	11 28 9 12 16 36 48 27	+ 8 54.3 5 44.9 + 3 9.4 5 47.9 - 2 38.5 5 47.9	57 39.1 29.2 57 9.9 29.5	15 44.0 8.0 15 36.0	182.550	+5.024 +4.546	9.8
	3	13 3 46 47 10	- 2 38.5 5 47.9	56 40.3	15 28.0	195.702	+3.834	11.8
100 CON		COLUMN TO THE PARTY OF THE PART	SHOW WAS IN THE SECOND TO SECOND THE SECOND		AND THE RESERVE	DA (E)	a section and the second	- The Park 19

STORE		Ober	e K 11	lminat	i c h	0 <sup>h</sup> Länge, + 50° Breite						
Tag		AR.	Ände- rung für 1h westl. Länge	[ Dekl.	Anderung für 1h westl. Länge	Parallaxc	Zeit des Durch- gangs	Ände- rung für 1h westl. Länge	Auf- gang	Ände- rung für ih westi Länge	Untergang	Ände- rung für 1h westl. Länge
194	7	h m s	s	. ,	7	-3	h m	m	h m	m	h m	m
März	23	0 52 28	125	+ 1 18.1	+15.3	57.7	12 51.8	1.92	6 42	0.7	.19 17	3.2
	24	I 43 26	130	+ 7 23.5		58.2	13 38.7	2,00	6 59	0.7	20 35	3.3
	25	.2 36 37	137		+13.9	58.6	14 27.8	2.11	7 18	0.8	21 56	3.4
	26	3 32 55	145	+18 21.5	1000	58.9	15 20.0	2.25	7 4.0	1.0	23 18	3.4
	27	4 32 52	154	+22 27.7	+ 8.6	59.1	16 15.9	2.40	8 8	1.3		9 5
	28	5 36 10	162	+25 7.6	+ 4.6	59.2	17 15.0	2.52	8 44	1.8	0 39	3.3
	29	6 41 31	164	+26 3.7	0.0	59.3	18 16.3	2,56	9 35	2.4	1 54	2.9
	30	7 46 50	161	+25 9.5	- 4.5	59.2	19 17.5	2.52	10 38	2.9	2 58	2.4
200 33	31	8 50 4	154	+22 31.5		59.0	20 16.6	2.40	11 53	3.2	3 48	1.8
April	I	9 49 53	145	+18 27.3		58.8	21 12.4	2.24	13 14	3.4	4 26	1.4
	2	10 46 1	136	+13 20.0	A CONTRACTOR	58.5	22 4.4	2,10	14 36	, 3.4	4 53	1.0
	3	11 38 57	129	+ 7 33.3	-14.9	58.0	22 53.3	1.98	15 56	3.3	5 1.5	0,8
	4	12 29 36	125	+ 1 29.6	-15.2	57.5	23 39.8	1.91	17 14	3.2	5 34	0.7
	5		18 775		-	-			18 30	3. I	5 50	0.7
	6	13 18 57	123	-431.5		56.9	0 25.1	1.88	19 45	3.1	6 7	0.7
	7	14 8 2	123	-10 12.9	-13.6	56.3	1.01	1.88	20 58	3.1	6 24	0.8
	8	14 57 39	125	—I 5 I 9.5		55.7	I 55.7	1.92	22 II	3.0	6 43	0.9
	9	15 48 25	129	-19 38.4	- 9.6	55.2	2 42.4	1.98	23 21	2,8	7 6	I.I
	10	16 40 38	132	-22 58.2	- 7.0	54.7	3 30.5	2.03	32 3 c	F 1/2 1	7 34	1.3
	II	17 34 12	135	-25 10.0	A CONTRACTOR OF THE PARTY OF TH	54.4	4 20.0	2.08	0 28	2.6	8 9	1.7
	12	18 28 37	137	<b>-26</b> 7.5	- o.8	54.3	5 10.4	2.10	1 26	2.3	8 54	2. I
	13	.19 23 10	136	-25 48.2	+ 2.4	54.3	6 0.8	2.09	2 16	1.9	9 48	2.4
	14	20 17 3	133	-24 13.2	+ 5.5	54.5	6 50.6	2.05	· 2 56	1.5	10 51	2.7
	15	21 9 43	130	<b>—21 27.2</b>	+ 8.3	54.9	7 39.2	2,00	3 27	1.2	11.59	2.9
1	16	22 0 59	127	-I7 37.7	+10.8	55.5	8 26.4	1.94	3 52	0.9	1.3 10	3.0
	1.7	22 51 3	125	-1253.7	+12.8	56.1	9 12.4	1.90	4 13	0.8	14 24	3.1
	18	23 40 29	123	<b>-</b> 7 26.2		56.9	9 57.8	1.89	4 31	0.7	15 38	3.1
	19	0 30 5	125	— I 28,2		57.7	10 43.3	1.92	4 47	0.7	16 54	3.2
	20	1 20 51	129	+ 4 44.5	+15.6	58.4	11 30.0	1.98	5 4	0.7	18 13	3.3
	21	2 13 53	136	+10 52.2	+14.9	59.0	12 19.0	2.10	5 21	0,8	19 35	3.4
	22	3 10 12	146	+16 31.1	+13.1	59.5	13 11.2	2,26	5 42	1,0	20 59	3.5
	23	4 10 25	156	+21 14.0		59.8	14 7.3	2.42	6 8	1,2	22 23	3.4
	24	5 14 23	164	+24 33.6		59.8	15 7.2	2.56	6 42	1.7	23 44	3.1
	25	6 20 47	167	+26 8.0		59.7	16 9.5	2.61	7 28	2,2		-
	26	7 27 22	165	+25 47.7		59.5	17 11.9	2.57	8 29	2.8	0 54	2.6
	27	8 31 44	157	+23 38.3		59.1	18 12.2	2.44	9 42	3.2	1 49	2.0
	28	9 32 19	146	+19 58.1	7.37	58.7	19 8.7	2.27	II I	3.4	2 29	1.5
	29	10 28 46	136	+15 10.4			20 1.1	2.10	12 23	3.3	2 59	1.1
	30	11 21 37	128	+ 9 38.8		57.7	20 49.8	1.97	13 42	3.5	3 22	0.9
Mai	I	12 11 49	123	+ 3 44.3		57.2	21 36.0		14 59	3.2	3 41	0.7
1	2	The state of the s	121	- 2 I4.7		56.7	22 20,6		16 14	3. I	3 57	0.7
	6400003	13 48 48		CONTRACTOR OF THE PARTY OF THE			23 4.8		17 28	3. I	4 13	0.7
	CENT.	PRO SOURCE OF	7.00 A CO.	Part of the State	100000000	G=1030	The second	1000000	1000	M. C	S. 1. S. 1. S. 2.	037.12

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	189		Oh Weltzeit								
Tag		Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite	Alter			
1947		h m s					e	d			
Mai	3	13 3 46 m s	- 2 38.5 5 36.0	56 40.3	15 28.0	195.702	+3.834	11.8			
	4	13 50 30	- 8 14.5 5 10.4	56 10.8	15.19.9 7.8	208.622	+2.936	12.8			
	5	14 37 50 48 28	-13 24.9 4 31.8	55 42.0	15 12.1	221.309	+1.907	13.8			
	6	15 26 24 16 16 19 49 55	-1756.7 $-2138.3$	55 14.8 24.3 54 50.5 20.0	15 4.7 6.6	233.771 246.026	+0.802 $-0.323$	14.8			
	8	17 7 43	24 70 7 41.4	54 30.5	14 52 6 3.5	258, 103	-0.323 -1.419	16.8			
	36	52 29	1 33.0	14.1	14 48.8	STANSON SI	A CONTRACTOR				
	9	18 0 12 18 53 4	-25 53.3 $-26 15.1$	54 16.4 54 9.7 6.7	14 46 9	270.043	-2.441 $-3.351$	17.8			
	1	10 45 33 52 29	-25 24 d 50.2	54 TT 4 1.7	14 47.4	293.734	<u>-4.116</u>	19.8			
	2	20 36 57 51 24	-23 26.0	54 22.7	14 50.5	305.616	-4.709	20.8			
1	3	21 26 54 49 57 48 31	$-20\ 24.6\frac{3}{3}\ 56.5$	54 43.9 21.2	14 56.3 8.5	317.621	-5.103	21.8			
1	4	22 15 25 47 27	-16 28.1 3 36.3 4 43.0	55 15.1 40.2	15 4.8 10.9	329.827	-5.275	22.8			
1	5	23 2 52	—II 45.I 5 20.2	55 55.3	15 15.7	342.308	-5.206	23.8			
I	6	23 49 54 47 29	$-624.9^{520.2}_{546.7}$	56 42.8 47.5 52.2	15 28.7 13.0	355.128	<b>-4.88</b> ′o	24.8			
The second second	7	0 37 23 48 57	- 0 38.2 5 50.6	57. 35.0	15 42.9	8.335	<b>-4.291</b>	25.8			
	8	I 20 20	+ 5 21.4	58 28.0	15 57.3	21.952	-3.445	26.8			
	9	2 17 50	+11 16.7 5 28.9 +16 45.6	59 17.4	16 10.8	35.972	-2.370	27.8 28.8			
		3 12 52 59 11	4 30.1	59 58.3 28.3	7.7	50.347	—I. I 20	A118 A1			
	I	4 12 3 63 6	+21 21.7 3 15.9	60 26.6	16 29.6	64,998	+0.227	0.4			
	23	5 15 9 65 40 6 20 49	+24 37.6 +26 10.9	60 39.5 3.1 60 36.4	16 33.2 0.9 16 32.3	79.816 94.676		1.4 2.4			
	24	7 26 42 65 53	+25 51.7	60 18.8 17.0	16 27.5 4.8	109.456	+3.868	3.4			
	25	8 30 18 °3 3°	+23 45.0 2 5.0	50 40.0 28.9	16 19.6 7.9	124.052	+4.651	4.4			
	26	9 30 2 59 44	+20 11.7 3 34.2	50 13.4 30.5	16 9.7	138.388	+5.129	5.4			
	27	55 24 10 25 26	+15 32.8	58.33.I	15 58.7	152.416	+5.289	6.4			
	8	II 17 O 51 34	+10 12.7 5 20.1	57 52. I	15 47.6	166,120	+5.142	7.4			
2	29	12 5 43 48 43	+ 4 31.4 5 41.3	57 12.6 39.5 36.6	15 36.8	179.505	+4.717	8.4			
	30	12 52 39	$-114.5 \frac{545.9}{536.6}$	50 30.0	15 26.8	192.593	+4.054	9.4			
	3.1	13 38 54 46 31	- 0 51.1	50 2.7	15 17.7 8.0	205.412	+3.199	10.4			
Juni	Ι	14 25 25 47 34	-12 5.5 4 40.5	55 33.1 25.9	15 9.7 7.1	217.995	+2.204	11.4			
	2	15 12 59 49 4	-16 46.0 3 55.0	55 7.2	15 2.6 6.0	230.374	+1.121	12.4			
	3	16 2 3	-20 4I.0 2 58.7	54 45.0 18.2	14 56.6	242.581	+0.001	13.4			
	4	16 52 48 52 8 17 44 56 52 52	-23 39 7 1 53.6	54 26.8 13.7	14 51.0	254.646 266.600	-1.106	14.4			
200	5	18 37 48 52 52 18 37 48 52 41	$-25\ 33.3$ $-26\ 16.1$	54 13.1 54 4.6	14 47.9 14 45.6	278.477	-2.152 $-3.098$	15.4			
	7	10 30 20	-25 46.3	54 2.1	14 44.0	290.315	-3.907	17.4			
	8	51 41	-24 6.8	4.0	14 46.1	Day of the last		18.4			
	9	20 22 10 21 12 17 50 7	-2T 22 6 2 43-2	E4 TO 2 12.5	14 49.5	302,158	-4.548 -4.996				
A SAME	10	22 0 42	-17 44.8	54 40.6	7 7 7 7 5.9	326.070	<b>—5.231</b>				
	II	40 58	-T3 TO 5 4 23.3	55 11.1 30.5	15 .37	338.262	-5.236				
	12	23 33 46 46 5	- 8 16.7 °	55 50.6 39.5	15 14.5	350.701	-4.998	THE RESERVOIR			
	13	0 19 51 40 3	- 2 46.0 <sup>5 30.7</sup>	56 38.3 47.7	15 27.4	3.456	-4.512	23.4			

	Obere Kulmination in Greenwich   0 <sup>h</sup> Lä										inge, + 50° Breite			
Tag		AR.	Ände- rung für Ih westl. Länge	Dekl.	Ände- rung für 1 <sup>h</sup> westl. Länge	Parallaxe	Zeit des Durch- gangs	Ände- rung für 1h westl. Länge	Auf- gang	Ände- rung für 1 <sup>h</sup> westl. Länge	Unter- gang	Ände- rung iür ih westl. Läng		
1947	7	h m s	s		3.		h m	m	h m	m	h m	m		
Mai	3	13 48 48	121	— 8 2.I	-14.0	56.2	23 4.8	1.85	17 28	3.1	4 13	0.7		
	4	14 37 35	123	-I 3 22.7	-12.6	55.7	23 49.5	1.88	18 41	3.0	4 29	0.7		
	5					0.578	Table 1	1	19 54	3.0	4 47	0.8		
	6	15 27 36	127	-18 2.8	ALC: NO.	55.2	0 35.5	1.95	21 6	2.9	5 8	1.0		
	7 8	16 19 15	131	-2 I 49.3	Trail Control of the	54.8	1 23.0	2.02	22 14	2.7	5 33	1.2		
	0	17 12 30	135	-24 31.2	- 5.3	54.5	2 12.2	2.00	23 17	2.4	6 5	1.5		
	9	18 6 53	137	-26 o.1	D-0-20 3 3 3 4 5	54.3	3 2.5	2.11		500	6 46	1.9		
	10	19 1 37	136	-26 11.8	1000	54.2	3 53.2	2.10	0 10	2.0	7 37	2.3		
	II	19 55 46	134.	-25 6.8	Carlotte Control	54.2	4 43.2	2.06	0 54	1.6	8 36	2.6		
	12	20 48 36	130	-22 49.5	200 20 1000	54.4	5 32.0	2,00	1 28	1.3	9.42	2.8		
	13	21 39 49	126	-19 27.3	THE PLAN OF THE PARTY OF THE PA	54.9	6 19.1	1.93	I 5.5	1.0	10 52	2.9		
	14	22 29 30	123.	-15 9.1	+11.8	55.4	7 4.8	-6.0	2 17	0.8	12 3	3.0		
	15	23 18 12	121	CONTRACTOR OF THE REAL PROPERTY.	+13.5	56.2	7 49.4	1.85	2.35	0.7	13 16	3.1		
	16	0 6 45	122	<b>- 4 23.6</b>	100000000000000000000000000000000000000	57.0	8 33.9	1.87	2 52	0.7	14 30	3.1		
	17	0 56.10	126	+ 1 40.8	The second second	57.9	9 19.2	1.93	3 8	0.7	15 46	3.3		
	18	1 47 40	132	CONTRACTOR STATE	+15.4	58.8	10 6.6	2.04	3 25	0.7	17 6	3.4		
	19	2 42 28	142	+13 51.7	1000000	59.6	10 57.4	2,20	. 3 44	0.9	18 30	3.6		
	20	3 41 37	1.54	+19 10.6	+12.0	60.2	11 52.4	2.39	4 7	I.I	19 57	3.6		
	21	4 45 27	165	+23 18.3	+ 8.4	60.6	12 52.2	2.58	4 37	1.5	21 22	3.4		
	22	5 53 5	172	+25 45.2	+ 3.7	60.7	13 55.7	2.69	5 19	2.0	22 40	2.9		
	23	7 2 10	172	+26 12.1	Carlotte I and	60.4	15 0.6	2.69	6 16	2.7	23 43	2.3		
	24	8 9 39	164	+24 38.4	10000000	60.0	16 4.0	2.57	7 27	3.1	600	300 F		
	25	9 13 12	153	+21 21.4	The second second	59.4	17 3.5	2.38	8 47	3.4	0 30	1.7		
	26	10 17 54	141	+16 47.7	-12.6	58.7	17 58.1	2.18	10 10	3.4	I 4	1.2		
	27	11 6 7	131	+11 24.5	-14.2	58.0	18 48.2	2.01	11 31	3.3	1 29	0.9		
	28	11 56 55	124	+ 5 35.0	-14.8	57.3	19 34.9	1.90	12 49	3.2	1 48	0.8		
	29	12 45 32	120	- o 21.8	-14.8	56.7	20 19.5	1.83	14 4	3.1	2 5	0.7		
	30	13 33 13	119	— 6 IO.7	-14.2	56.1	21 3.1	1.82	15 17	3.0	2 21	0.7		
S 485 W	31	14 21 5	121	—II 37.7	LANGE OF STREET	55.6	21 46.9	1.85	16 29	3.0	2 37	0.7		
Juni	I	15 10 1	124	—16 30.C	-11.3	55.1	22 31.8	1.90	17 41	3.0	2 53	0.7		
7	2	16 0 37	129	-20 34.9	- 9.0	54.8	23 18.3	1.98	18 53	2.9	3 12	0.9		
	3		10 Mar 1			-	-	000	20 3	2.8	3 36	1.1		
	4	16 53 2	133	-23 40.4	-6.3	54.4	0 6.7	2.05	21 8	2.5	. 4 5	1.4		
	5	17 47 0		-25 36.3		54.2		2.10	The State of the S	2.2	4 43	1.8		
	6	18 41 44	137	<b>—26 16.3</b>		54.1		2.11	22 52	1.8	5 30	2.2		
1	7	19 36.12	135	-25 38.7	+ 3.1	54.0	2 37.6	2.08	23 29	1.4	6 26	2.5		
	8	20 29 28	131	-23 47.1	+ 6.1	54.1	3 26.8	2.01	23 58	I.I	7 30	2.7		
	9	21 20.57	No. of Concession	-20 48.7		54.4	4 14.2	1.94		-	8 38	2.9		
	10	22 10 35	A CONTRACTOR	-16 53.1		54.8	4 59.7	1.86	0 21	0.9	9 48	2.9		
	11	22 58 43	1 4 4 5 4 7 7	-12 10.3		55-3	5 43:8	1.82	0 41	0.7	10 59	3.0		
	12	23 46 7	7 I S 100 S F	- 6 50.1		56.0		1.81	0 57	0.7	12 10	3.0		
	13		120	— I 3.2	+14.9	56.9	7 10.8	1.84	1 13	0.7	13 23	3.1		

		Oh Weltzeit										
Tag		Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite	Alter				
1947		h m s				0	0	d				
Juni 1	13	0 19 51 m s	- 2 46.0 5 47.8	56 38.3	15 27.4	3.456	-4.512	23.4				
	4	1 6 57	T 3 1.0	57 32.2	15 42.1	16.587	-3.780	24.4				
	5	1 50 11	+ 8 53.2	58 29.1	15 57.0	30.141	-2.816	25.4				
	16	2 48 44	+14 30.3	39 24.7	10 12.8	44.138	-1.657	26.4				
	7	3 45 38 61 37	+19 29.7	00 13.7	16 26.1	58.562	-0.360	27.4				
The state of	8	4 47 15 65 39	$+23\ 23.6\frac{3\ 33.9}{2\ 20.4}$	60 50.6 20.4	16 36.2	73.351	+0.992	28.4				
	19	5 52 54. 67 35	+25 44.0 0 27.1	61 11.0	16 41.7	88.400		0.1				
	20	66 39	+26 11.1	01 12.5	10 42.1	103.564		I.I				
	2 I	63 13	+24 41.4	00 55.2	10 37.4	118,681		2. I				
	22	9 10 21 10 8 58 58 37	+21 29.0 4 29.8	60 22.2	16 28.5 16 16.4	133.598		3.1				
	23	54 5	+16 59.2 5 19.5	59 38.1 50.3 58 47.8	16 2.7	148.193	+5.210 +5.141	4. I				
	F.13	50 26	+11 39.7 5 45.0	37	14.1	./ 1 0	100000000000000000000000000000000000000	5. I				
	25	11 53 29 47 56	+ 5 54.7 5 50.9	57 56.1	15 48.6	176.150	+4.775	6.1				
	26	12 41 25	+ 0 3.8 5 41.9	57 6.6 49.5 56 21.7 44.9	15 35.1	189.491		7. I				
	27.	13 28 3 46 23 14 14 26 -	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	55 42.7	15 22.9 10.6	202.450	+3.344	8.1				
	29	14 14 20 15 1 30 47 4	-10 58.3 -15 45.9	55 42.7 55 10.2	15 12.3 15 3.4	227.451	+2.386 $+1.335$	9.1				
	30	15 49 53 50 8	-19 50.4 4.5 -19 50.4	54 44.2	14 56.4 7.0	239.615	+0.241	II.I				
	35	50 2	3 11.3	19.8	5.5		3 - 2 - 2 - 2 - 2 - 2	61-16				
Juli	I	16 39 55 51 34	-23 I.7 2 8.9	54 24.4	14 50.9	251,631	-0.849	12.1				
	2	17 31 29 18 24 6 52 37	-25 10.6 -26 10.5	54 10.2	14 47.1	263.549	-1.890 -2.841	13.1				
	3 4	18 24 6 52 46 19 16 52 52 46	-25 10.5 $-25 58.2$ $0 12.3$	54 I.5 53 58.1 3.4	14 44.7 14 43.8 0.9	275.410 287.249	-2.641 $-3.666$	14.1				
	5	20 8 54 52 2	-24 24 0 1 23.3	54 0.2	14 44.4	299.097	<del>-4.333</del>	16.1				
	6	20 50 27 50 33	$-22 62^{228.7}$	54 8.0 7.8	14 46.5	310.986		17.1				
	-	40 44	3 26.0	14.2	3.9	12-5		100				
	7 8	21 48 11.	-18 40.2 -14 26.7 4 13.5	54 22.2	14 50.4 14 56.1 5.7	322.948	-5.085 -5.135	18.1				
	9	23 20 56 45 44	- 0 25 6 4 3 ···	54 43.4 <sub>28.6</sub> 55 12.0	15 3.9 78	335.023 347.256		20.1				
	10	0 6 8 45 12	- 4 16 8 3 10.0	EE 18 1 30.4	15 13.8 9.9	359.700		21.1				
	II	0 51 44 45 36	+ 1 19.4 5 30.2	56 32.2 43.0	15 25.8	12.414	-3.891	22.1				
15 E TO	12	1 38 40 47 5	+ 7 1.5 5 42.1	57 22.3	15 30.4	25.458	-3.029	23.1				
	7.2	2 28 35	5 33.9	58 16.6	14.0	38.887	—r.978	24.1				
	13	3 22 11	+12 35.4 5 7.1 +17 42.5	59 11.8 55.2	15 54.2 16 9.3	52.742						
	1.5	4 20 29 63 4	+21 50.1 4 10.0	60 3.1 51.3	16 23.2	67.037	+0.500					
	16	5 23 33 66 38	+24 ER T 259.0	60 45.3	16 34 7	81.740						
	17		+26 14.2	61 13.0 2/1/	16 42.3	96.773						
	18	7 37 54 65 53	+25 33.1	61 22.2 9.2	$1644.8\frac{2.5}{2.9}$	112.002		29.1				
	19	8 43 47 62 1	+22 58.0	61 11.6	16 41.9	127.259	45 - 37 37	0.8				
	20		1 + 18 40 1	60 42.5	16 34.0 7.9	142.363						
	21	10 42 12 3/ 24	3 14.2	1 -0 -0 - 43.8	16 22 0 12.0	177776		100				
	22	II 36 26	+ 7 44.4	50 58 32.9	16 7.6 4.4	171.521						
1000	23	12 26 30	+ 1 42.1	58 9.1	15 52.2	185.407	+4.194	4.8				
1 B 3 E	24	13 14 36 48 6	- 4 I 3.0 <sup>5</sup> 55.1	57.13.4 55.7	15. 37.0	198.810	+3.408	5.8				

AR.	Untergang  h m 13 23 14 39 16 0 17 24 18 51	Mnde-rung für ih westl. Länge  m 3. I 3. 3 3. 4 3. 6
Juni 13 0 33 47 120 — 1 3.2 +14.9 56.9 7 10.8 1.84 1 13 0.7 1 14 1 22 55 126 + 4 58.3 +15.2 57.9 7 55.8 1.93 1 28 0.7 1 15 2 14 51 134 +10 58.5 +14.7 58.8 8 43.7 2.08 1 46 0.8 16 3 10 55 146 +16 36.0 +13.2 59.8 9 35.7 2.27 2 6 1.0	13 23 14 39 16 0 17 24	3. I 3. 3 3. 4
Juni 13 0 33 47 120 - 1 3.2 +14.9 56.9 7 10.8 1.84 1 13 0.7 1 14 1 22 55 126 + 4 58.3 +15.2 57.9 7 55.8 1.93 1 28 0.7 1 15 2 14 51 134 +10 58.5 +14.7 58.8 8 43.7 2.08 1 46 0.8 16 3 10 55 146 +16 36.0 +13.2 59.8 9 35.7 2.27 2 6 1.0	13 23 14 39 16 0 17 24	3. I 3. 3 3. 4
15 2 14 51 134 +10 58.5 +14.7 58.8 8 43.7 2.08 1 46 0.8 1 16 3 10 55 146 +16 36.0 +13.2 59.8 9 35.7 2.27 2 6 1.0	16 0 17 24	3.4
16 3 10 55 146 +16 36.0 +13.2 59.8 9 35.7 2.27 2 6 1.0	17 24	
	2010	3.6
	18 51	100000000000000000000000000000000000000
		3.6
18 5 18 32 172 +24 44.6 + 6.2 61.0 11 35.1 2.68 3 8 1.8	20 14	3.2
19 6 28 33 177 +26 13.1 + 1.0 61.2 12 40.9 2.78 3 57 2.4	21 26	2.7
	22 23	2.0
21 8 46 46 164 +22 53.0 - 8.9 60.6 14 50.9, 2.55 6 24 3.4	23 3	1.4
22 9 49 33 150 +18 38.1 -12.1 59.9 15 49.6 2.34 7 49 3.5 2	23 32	I, I
	23 54	0.8
24 11 40 12 128 + 7 29.0 -15.0 58.2 17 32.1 1.97 10 35 3.3	-	-
25 12 30 12 122 + 1 26.8 -15.1 57.3 18 18.0 1.87 11 53 3.2	0 12	0.7
26 13 18 27 120 - 4 28.8 -14.5 56.5 19 2.2 1.83 13 7 3.1	0 28	0.7
27 14 6 14 120 -10 3.8 -13.4 55.8 19 45.9 1.83 14 20 3.0	0 44	0.7
28 14 54 34 122 -15 6.4 -11.8 55.2 20 30.2 1.87 15 32 3.0	I O	0.7
29 15 44 17 126 -19 25.0 - 9.7 54.8 21 15.8 1.94 16 44 2.9	1 18	0.8
30 16 35 48 131 -22 48.4 - 7.2 54.4 22 3.3 2.02 17 53 2.8	1 40	1.0
Juli i 17 29 3 135 -25 6.1 - 4.2 54.2 22 52.5 2.08 18 59 2.6	2 7	1.3
2 18 23 28 137 -26 10.2 - 1.1 54.0 23 42.8 2.11 19 59 2.3	2 42	1.6
3 20 49 1.9	3 26	2.0
4 19 18 5 136 -25 57.1 + 2.2 54.0 0 33.4 2.10 21 30 1.5	4 19	2.4
5 20 11 51 133 -24 28.1 + 5.2 54.0 1 23.0 2.04 22 1 1.2	5 21	2.7
6 21 3 58 128 -21 49.7 + 7.9 54.2 2 11.1 1.96 22 26 0.9	6 28	2.8
7 21 54 3 123 -18 11.4 +10.2 54.4 2 57.1 1.88 22 46 0.8	7 37	2.9
8 22 42 17 119 -13 44.2 +12.0 54.8 3 41.3 1.81 23 3 0.7	8 47	2.9
. 9 23 29 14 116 - 8 38.9 +13.4 55.3 4 24.2 1.78 23 18 0.6	9 57	2.9
	11 8	3.0
	12 21	3. I
12   1 52 9   126   + 8 34.6   +14.5   57.6   6 34.9   1.94     -   1	13 37	3.2
13 2 44 38 136 +14 13.8 +13.6 58.6 7 23.3 2.10 0 8 0.8 1	14 57	3.4
	16 20	3:5
	17 44	3.4
	19 2	3.0
	20 7	2.4
	20 55	1.7
	21 30	1.3
	21 56	1.0
	22 16	0.8
	22 33	0.7
23 13 0 39 123 - 2 30.7 -15.1 57.5 16 58.3 1.89 10 52 3.2 2	22 49	0.7
	23 6	0.7

				Oh Weltz	e i t			
Tag		Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite	Alter
194	7	h m s						d
Juli	24	13 14 36 m s	- 4 13.0	57 13.4 51.0	15 37.0	198.810	+3.408	5.8
	25	14 1 53 47 17	$-946.5 \frac{533.5}{50.2}$	56 22.4	15 23.1 12.0	211.769	+2.469	6.8
	26	14 49 18 47 25	-14 46.7 <sub>4 16 8</sub>	55 38.3	15 11.1 9.8	224.349	+1.435	7.8
	27	15 37 39 40 44	-19 3.5	55 2.4 27.5	15 I.3	236.629	+0.359	8.8
	28	10 27 23	-22 27.8	54 34.9	14 53.8	248.691	-0.713	9.8
	29	17 18 35 52 20	-24 50.9 1 15.3	54 15.7 11.5	14 48.6 3.2	260,610	1.738	10.8
	30	18 10 55	-26 6.2	54 4.2	14 45.4	272.453	-2.680	11.8
	31	19 3 40 52 18	$-26  9.8 \stackrel{\text{o}}{=} \stackrel{3.6}{=} 18.2$	53 59.5 4.7	14 44.2 0.4	284.276	<b>—3.502</b>	12.8
Aug.	I	19 55 58 51 3	$-25  1.6^{10.2}_{215.7}$	54 1.0 7.0	14 44.6	296.125	-4.172	13.8
	2	20 47 I	-2245.9	54 8.0	14 46.5	308.031	-4.662	14.8
	3	21 30 21	-19 30.2 4 6.0	54 20.0	14 49.8 4.6	320.021	-4.949	15.8
	4	22 23 53 46 2	-15 24.2 4 45.5	54 36.9	14 54.4 5.9	332.117	-5.018	16.8
	5	23 9 55	-10 38.7	54 58.8	15 0.3 7.4	344.338	-4.858	17.8
	6	23 55 3 45	$-524.5 \frac{514.2}{531.9}$	55 25.8 27.0	15 7.7 7.4	356.710	-4.469	18.8
	7	0 40 7 45 4	$+ 0 7.4_{538.0}^{531.9}$	55 58.1 32.3	15 16.5	9.264	<del>-3.860</del>	19.8
	8	1 26 4 45 57	+ 5 45.4	56 35.8 37.7	15 26.7	22.037	-3.048	20.8
	9	2 13 58 47 54	+11 10.6	57 18.2 42.4	15 38.3	35.077	2.060	21.8
	10	3 4 58 51 0	+16 25.1 4 26.5	58 4.2 47.6	15 50.9	48.432	-0.938	22.8
	II	400	+20 51 6	ES ET S	16 38	62.144	+0.268	23.8
	12	1 50 22 59 33	+24 13 0 3 21.4	50 37.5 45.7	16 16 2 12.5	76.241	+1.489	
	13	6 3 12 3 39	+26 5.5 0 4.7	00 17 3	16 27.1	90.718	+2.646	25.8
	14	7 9 16 66 4	$+26 10.2 \frac{64.7}{149.3}$	60 46,5	16 35 1	105.526	+3.651	26.8
	15	8 15 16	+24 20.9 3 33.3	$61  0.9  \frac{14.4}{3.2}$	16 39.0 $\frac{3.9}{0.9}$	120.566		
	16	9 18 49 59 44	+20 47.6 4 54.4	60 57.7 20.9	16. 38. 1	135,695	+4.881	28.8
1.650	17	10 18 33	1 7 7 7 0 0	60 26 8	16 32 4	150.742	+5.003	0.5
	18	11 14 17 55 44	1 to 66 5 40.0	60 0 T 3017	16 22 4 10.0	165.541	CONTRACTOR OF THE PARTY	CONTRACTOR OF THE
	19	12 6 30 52 22	+ 3 55.7 6 11.6	59 11.9	16 03 1311	179.961		
	20	12 56 41 50 2	$-215.9_{5.53.5}$	58 17.3 55.8	15 54.4 15.2	193.921	+3.501	3.5
	21	13 45 26 48 45	$-89.4_{5,20.9}^{3,33.3}$	57 21.5 52.8	15 30.2	207.396	+2.563	4.5
	22	.14 33 55 49 1	-13 30.3 4 36.7	56 28.7 46.4	15 24.8 12.6	220.409	+1.520	5.5
	23	15 22 56	-18 70	55 42.3	15 12.2	233.019	+0.431	6.5
	24	16 13 1 50 5	-21 50 0 2 43.0	55 4.2 30.1	TE T8 10.4	245.305		7.5
1	25	17 4 20 51 19	-24 31.3	54 35.5	14 54.0 7.8	257.354		
	26	17 56 41 52 21	-26. 4.3	54 16.5	14 48 8	269.254	and the second second second	
	27	18 40 20 32 49	-26 25.4	54 6.8 9.7	14 46.2	281,086	-3.450	
	28	19 42 2 51 28	-25 33.8 ° 51.6	$54  5.6  \frac{1.2}{6.3}$	14 45.8 0.4	292.922	The second second second	U.S 127
	29	20 33 30	-23 32.9	54 11.9	14 47.6	304.818	-4.621	12.5
	30	27 22 25 49 55	-20 20.0 3 3.9	54 24.5	TAETO	216 810	-4.918	
	31	22 11 37 40 12	-16 31 2 3 57.0	51 12 2 17.7	14 55.8	328.954	-4.997	
Sept.		22 58 18 40 41	-II 49.8 4 41.4	55 3.9 21.7	15 17 5.9	341.241		
Park N	2	22 42 56 45 30	$-636.2^{513.6}$	55 28.8 24.9	15 8.5	353.691	-4.463	and the same of the
	3		- I 2.2 5 34.0	55 56.2 27.4	15 16.0 7.5	6,309		

	00	Obere Kulmination in Greenwich   0 <sup>h</sup> Länge, + 50° Breite										
Tag	5	AR.	Ände- rung für ih westi. Länge	Dekl.	Ände- rung für Ih westl. Länge	Parallaxe	Zeit des Durch- gangs	Ände- rung für 1h westi. Länge	Auf- gang	Ände- rung für 1h westl. Länge	Unter- gang	Ände- rung für ih westl. Länge
194	7	h m s	s	. ,		1000	h m	m	h m	m	h m	m
Juli	24	13 49 31	122	<b>- 8 22.0</b>	-14.0	56.6	17 43.1	1.86	12 7	3.1	23 6	0.7
	25	14 38 18	123	<b>—13 40.9</b>	The state of the s	55.8	18 27.8	1.88	13 21	3.1	23 24	0.8
	26	15 27 56	126	-18 16.3		55. I	19 13.4	1.93	14 34	3.0	23 44	1.0
	27	16 19 0	130	-2157.8	200/201003	54.6	20 0.4	.1.99	1.5 44	2.9	West es	4
	28	17 11 43	134	-24 35.7	4307 201	54.3	20 49.0	2.06	16 52	2.7	0 10	1.2
	29	18 5 45	136	<del>-26</del> 2.0	- 2.0	54.1	21 39.0	2.10	17 54	2.4	0 42	1.5
	30	19 0 21	136	-26 11.7	+ 1.2	54.0	22 29.5	2.10	18 47	2.0	1 23	1.9
	31	19 54 30	134	<b>—25</b> 4.5	+ 4.4	54.0	23 19.6	2.06	19 30	1.6	2 13	2.3
Aug.	1		-		37—(c)				20 4	1.3	3 13	2.6
	2	20 47 18	130	-22 44.9	0.00 B	54.1	0 8.3	1.99	20 31	1.0	4 19	2.8
	3	21 38 12	125	—19 21.6	+ 9.7	54.3	0 55.1	1.91	20 52	0.8	5 28	2.9
	4	22.27. 7	120	—I 5 5.5	+,11.6	54.6	I 40.0	1.83	21 10	0.7	6 38	2.9
	5	23 14 26	117	-10 8.5	+13.1	55.0	2 23.2	1.78	21 25	0.6	7 48	2.9
	6	0 0 51	116	- 4 42.5	+14.0	55.5	3 5.6	1.76	21 40	0.6	8 59	3.0
	7	0 47 18	117	+ 1 0.8	+14.5	56.1	3 48.0	1.78	21 55	0.7	10 10	3,0
	8.	I 34 55	121	+ 6 48.8	+14.4	56.7	4 31.5	1.86	22 12	0.8	11 24	3.1
	9	2 24 55	129	+12 27.1	+13.7	57.5	5 17.5	1.98	22 32	0.9	12 40	3.3
	10	3 18 35	140	+17 37.9	+12.1	58.3	6 7.1	2.16	22 57	I.2	14 0	3.4
	11	4 16 57	152	+21 58.4	+ 9.4	59.1	7 1.3	2.37	23 32	1.7	15 22	3.3
	12	5 20 24	164	+25 1.6	+ 5.6	59.9	8 0.7	2.57		200	16 41	3.1
	13	6 28 o	172	+26 20.6	+ 0.8	60.5	9 4.2	2.70	0 20	2.4	17 50	2,6
	14	7 37 21	173	+25 37.6	- 4.4	60.9	10 9.4	2.70	I 26	3.0	18 45	2.0
	15	8 45 24	166	+22 52.9	- 9.2	61,0	11 13.3	2.60	2 46	3.5	19 25	1.5
	16	9 49 46	155	+18 26.0	-12.8	60.8	12 13.6	2.42	4 14	3.7	19,55	I.I
	17	10 49 34	144	+12 47.8	-15.1	60.3	13 9.3	2.23	5 42	3.6	20 17	0.9
	18	11 45 13	135	+ 6 31.3	2444 - 3224	59.6	14 0.8	2.08	7 8	3-5	20 36	0.7
	19	12 37 45	129	+ 0 5.0	-16.o	58.6	14 49.3	1.98	8 30	3.3	20 53	0.7
A STARY	20	13 28 27	125	<b>- 6 8.7</b>	—I 5. I	57.7	15 35.9	1:92	9 49	3.2	21 9	0.7
	21	14 18 29	125	-II 52.5		56.7	16 21.9	1.92	1.1 5	3.2	21 27	0.8
7	122	15 8 50	127	—16 53.0	-11.5	55.9	17 8.2	1.95	12 20	3.1	21 47	0.9
	23	16 0 13	130	<b>-20 59.1</b>	- 9.0	55.2	17. 55.5	2,00	13 33	3.0	22 11	I,I
	24	16 52 58	134	<b>-24</b> I.5	- 6.2	54.7	18 44.2	2.05	14 43	2.8	22 40	1.4
1	25	17 46 57	136	-25 52.5	- 3.1	54.3	19 34.1	2.10	15 47	2.5	23 18	1.8
	26	18 41 36	137	-26 26.9	+ 0.2	54.1	20 24.6	2.11	16 43	2. I		7630
	27	19 36 3	135	-25 43.4	+ 3.4	54.1	21 15.0	2.08	17 30	1.7	0 6	2.2
	28	20 29 25	131	-23 45.1	+ 6.4	54.2	22 4.3	2.02	18 7	1.4	1 3	2.5
	29	21 21 6	127	-20 39.0	+ 9.0	54.4	22.51.9	1.95	18 35	I.I	2 8	2.8
The State of the S	30	22 10 53	A 770000000000	AND RESIDENCE AND REAL PROPERTY.			23 37.6	1.87	18 58	0.9	3 17.	2.9
Sen All	31		CONTRACTOR OF						19.16	0.7	4 27	3.0
Sept.		22 58 59	119	<b>—11 45.3</b>				1.81	CHIEF CONTRACTOR	0.6	5 39	3.0
	2	23 45 59	117	- 6 21,6	+14.0	55.5			19 47	0.6	6 50	3.0
	3	0 32 39	117	- o 36.9	<b>→ 14.6</b>	56.0	I 47.2	1.78,	20 2	0.6	8 1	3.0

	77	Oh Weltzeit							
Tag		Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite	Alter	
194	7	h m s		Va	3/1/2 11-			d	
Sept.	3	0 29 16 m s	- I 2.2 ° '	55 56.2	15 16.0	6.309	<u>-3.858</u>	17.5	
5, 50 =	4	I I S Q 45 53	+ 4 39.6 <sup>5 41.8</sup>	56 25.0	TE 24 T	19.103	-3.049	18.5	
	5	2 2 32 47 23	+10 15.5 5 35.9	56 57.5	15 32.7	32.085	-2.070	19.5	
Total Control	6	2 52 24 49 52	+15 30.1 5 14.0	57 30 8 33.3	15 41.8 9.1	45.276	-0.962	20.5	
	7	3 45 39 53 15	+20 5.4 4 35.3	58 5.4 34.0	15 51.2 9.4	58.699	+0.219	21.5	
	8	4 42 50 57 11	+23 41.2 3 35.8	58.40.0	16 0.6 9.4	72.383	+1.411	22.5	
	9	5 43 46	+25 56.4	50.13.2	16 0.6	86.346	+2.544	23.5	
	10	6 47 20 03 34	$+2633.3\frac{030.9}{}$	EO 42 4	16 17 6 8.0	100.591		24.5	
	11	7 51 37 04 17	+25 22.8 1 10.5	60 4.7	16 23.7	115.091		25.5	
	12	8 54 30 02 53	+22 28.2 2 54.6	60 16.0	16 27.0	129.780	+4.846	26.5	
100	13	0.54.20 59 59	+18 5.3 4 22.9	60 16.4	16 26.0	144.558	+5.042	27.5	
	14	10 51 3 56 34	$+12\ 37.6^{5\ 27.7}_{6\ 6.2}$	60 2.0 14.4	16 22.9 7.5	159.296	+4.904	28.5	
	15	11 44 32	+ 6 21 4	59 34.2	16 15.4	173.857	+4.448	0.2	
	16	12 35 42 51 10	+ o 11,8 a 19.0	58 55. I 39.I 46.7	16 4.7	188,121	+3.720	1.2	
	17	13 25 32 49 50	- 5 59.2 6 II.0	58 8.4	15 52.0	202,001	+2.786	2.2	
	18	14 14 50	$-1143.4^{544.2}_{52.5}$	57 18.4 49.1	15 38.4	215.457	+1.720	3.2	
	19	15 4 40	-ID 45 0	56 29.3	15 25.0	228.488	十0.594	4.2	
	20	15 55 32 51 50	-20 54.9 4 9.0 -20 54.9 3 6.1	55 44.7 37.5	15 12.8	241.133	-0.532	5.2	
18785	21	16 47 22 52 47	-24 I.O	55 7.2 28.4	15 2.6	253.456	—ı.607	6.2	
	22	17 40 9	-25 57.5	54 38.8 18.4	14 54.9 5.0	265.536	-2.588	7.2	
	23	18 33 21	-20 40.5 <del>0 31.0</del>	54 20.4	14 49.9	277.459	-3.443	8.2	
	24	19 26 15 52 54	-26 9.5 I 42.2	54 12.3	14 47.7	289.312	<b>-4.145</b>	9.2	
	25 26	20 18 7 50 21 21 8 28	-24 27.3 2 47.4	54 14.1	14 48.2	301.177	-4.669 <sup>-</sup>	10.2	
	1	48 41	-21 39.9 3 44.8	54 25.0 18.5	14 51.1	313.124	-4.993	11.2	
	27	21 57 9 47 10	-17 55.1 4 32.5	54 43.5	14 56.2	325.213	<b>—5.100</b>	12.2	
	28	22 44 19 46 9	-13 22.0 k 0.0	55 8.2	15 2.9 7.9	337.487	-4.975	13.2	
	29	23 30 28 45 46 0 16 14 45 46	- 8 12.7 5 35.6	55 37.1 56 8.3	15 10.8 8.5	349.973 2.683	-4.613	14.2	
Okt.	30 I	1 2 28 46 14	$\begin{array}{c} -2 & 37.1 \\ +3 & 11.4 \end{array}$	56 8.3 56 40.1	15 19.3 8.6	15.615	-4.017 -3.205	15.2	
OAU.	2	I 50 4 47 36	+ 8 58.2 5 40.8	57 10 0 30.8	T 5 26 2 8.4	28.757	-2,209	17.2	
	,	2 39 58	5 28.5 +14 26.7	57 .39.6	15 44.1	42.095	—I,076	18.2	
	3 4	3 32 58 53 0	+19 18.0 4 51.3	58 5.7 26.1	15 51.3	55.612		19.2	
	5	4 29 34 50 36	+23 11.5 3 53.5	58 28.9 23.2	15 57.6	69.299			
	6	5 20 34	+25 46.7 2 35.2	58 48.0	16 3.0	83.146		21.2	
	7	6 31 59	+26 46.9	50 56 20.7	16 7.6 4.6	97.146		22.2	
	8	7 35 3 61 48	+26 3.4 43.5	59 18.4	16 11.0 3.4	111.286		23.2	
	9	8 26 57	+23 38.5	59 26.3	16 13.2	125.541	+4.903	24.2	
	10	0 26 7 59 10	+19 44.9	50 28.1	16 13.7	139.870			
	II	10 32 1 50 0	+11 12 2 5 2.7	59 22.5	16 12.2	154.212	ACCOUNT OF THE PARTY OF THE PAR	THE RESERVE TO A STATE OF	
	12	11 25 7 53 0	+ 8 53 0 5 49.2	50 8.4	16 8.3 5.9	168.490		7 7 7 7 7	
	13	12 16 3 50 50	+ 2 39.9 6 15.7	58 45.6	16 2.1 8.4	182.621	+4.041	28.2	
	14	13 5 44 49 41	- 3 35.8 ° 15.7	58 14.8 30.8	15 53.7	196.525	+3.142	29.2	

		Obere Kulmination in Greenw							0 <sup>h</sup> Lä	nge, +	- 50° Br	eite
Tag		AR.	Ände- rung für ih westl. Länge	Dekl.	Ände- rung für in westl. Länge	Parallaxe	Zeit des Durch- gangs	Ände- rung für th westl. Länge	Auf- gang	Ände- rung für jh westl. Länge	Unter- gang	Ände- rung für 1h westl. Länge
194	7	h m s	·s			13.613	h m	m	h m	m	h m	m
Sept.	3	0 32 39	117	- o 36.9	+14.6	56.0	1 47.2	1.78	20 2	0.6	8 1	3.0
P. 37.3	4	I 20 I	120		+14.6	56.5	2 30.5	1.83	20 18	0.7	9 1 5	3.1
	5	2 9 8	126	+10 59.9		57.0	3 15.6	1.93	20 36	0.8	10 30	3.2
	6	3 1 9	135	+16 20.0	A 10 TO 10 T	57.6	4 3.5	2.08	20 59	I.I	11 48	3.3
	7	3 57 3	145	+20 55.2	70 30 30 70	58.2	4 55.3	2.25	21 29	1.5	13 8	3.3
	8	4 57 23	156	+24 22.4	+ 6.9	58.8	5 51.6	2.43	22 11	2.1	14 27	3.1
15 15 15	9	6 1 45	165	+26 17.6	+ 2.6	59.4	6 51.8	2.57	23 8	2.7	15 38	2.7
	10	7 8 33	168	+26 22.0	- 2.3	59.8	7 54.5	2.63		-	16 37	2.1
	ΊΙ	8 15 20	165	+24 29.2		60.2	8 57.2	2.58	0 20	3.2	17 21	1.6
	12	9 19 48	157	+20 48.6	-II.2	60.3	9 57.5	2.44	I 43	3.6	17 54	1.2
	13	10 20 36	147	+15 42.9	100	60.2	10 54.3	2,28	3 11	3.6	18 19	0.9
	14	11 17 40	138	+ 9 40.9	-15.8	59.8	11 47.2	2.14	4 38	3.6	18 39	0.8
	15	12 11 40	132	+ 3 12.0	-16.4	59.2	12 37.1	2.03	6 I	3.4	18 56	0.7
	16	13 3 40	128	- 3 17.9	-16.0	58.5	13 25.1	1.97	7 23	3.3	19 13	0.7
	17	13 54 47	128	- 9 27.1		57.6	14 12.1	1.96	8 42	3.3	19 29	0.7
	.18	14 46 0	129	<b>—14 58.0</b>		56.8	14 59.3	1.98	9 59	3.2	19 48	0.9
	19	15 38 3	132	-19 36.3	The second second	56.0	15 47.2	2.02	11 15	3. I	20 10	1,0
	20	16 31 17	135	-23 10.8	- 7.5	55.3	16 36.4	2.08	12.28	2.9	20 38	1.3
	21	17 25 40	137	-25 32.9	- 4.3	54.8	17 26.7	2.11	13 37	2.7	21 13	1.7
	22	18 20 42	138	-26 37.0	- 1.0	54.4	18 17.6	2.13	14 37	2.3	21 57	2.0
	23	19 15 36	136	-26 21.7	+ 2.3	54.2	19 8,4	2.10	15 28	1.9	22 51	2.4
	24	20 9 30	133	-24 49.2	100000000000000000000000000000000000000	54.2	19 58.3	2.05	16 8	1.5	23 54	2.7
	25	21 1 48	128	The state of the s	+ 8.2	54.4	20 46.5	1.97	16 38	I.I		
	26	21 52 15	124	<b>—18 20.5</b>	+10.5	54.7	21 32.9	1.90	17 3	0.9	I 2	2.9
	27	22 41 0	120	—I 3 43.3	+12.5	55.1	22 17.6	1.83	17 22	0.8	2 12	3.0
	28	23 28 35	118	- 8 26.0		55.6	23 1.1	1.80	17 39	0.7	3 24	3.0
	29	0 15 44	118	- 2 40.9	+14.8	56.1	23 44.2	1.80	17 54	0.6	4 36	3.0
	30		-			-		185	18 9	0.6	5 48	3.0
Okt.	I	I 3 22	121	100000000000000000000000000000000000000	+15.2	56.7	0 27.8	1.84	18 24	0.5	7 2	3.1
	2	I 52 32	126	+ 9 15.4	+14.6	57.2	I 12.9	1.93	18 42	0.8	8 19	3.2
	3	2 44 17	133	+14 52.8	+13.4	57.7	2 0.5	2.05	19 3	1.0	9 37	3.3
	4	3 39 32	143	+19 49.3	+11.2	58.1	2 51.7	2.22	19 30	1.4	10 58	3.3
	5	4 38 48	153	+23 41.7	+ 8.0	58.5	3 46.9	2.38	20 8	1.8	12 18	3.2
	6	5 41 49	161	+26 6.6	+ 3.9	58.9	4 45.8	2.51	20 59	2.4	13 32	2.8
	7	6 47 12	165	+26 46.0		59.2	5 47.0	2.57	22 5	3.0	14 34	2.3
12 200	8	7 52 47	162	+25 32.2	- 5.4	59.4		2.53	23 23	3.4	15 21	1.7
	9	8 56 25	155	+22 31.4	- 9.5	59.5		2.42		200	15 56	1.3
	10	9'56 47		+18 1.5		59.5	8 44.3	2.27	0 48	3.5	16 22	1.0
	11	10 53 37		+12 26.6				2.13	2 13	3.5	16 43	0.8
196 7 31	12	11 47 30		+ 6 12.2			10 26.9	2.03	CONTRACTOR OF THE PARTY OF THE	3.4	17 0	0.7
10000	13			- 0 17.0				1.97	The second secon	3.3	17 17	0.7
and the same	14	13 30 28	127	<b>-</b> 6 38.8	3 -1 5.5	57.9	12 1.7	1.95	6 17	3.3	17 33	0.7

	o <sup>h</sup> Weltzeit								
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite	Alter		
1947	h m s	0 1					d		
Okt. 14	13 5 44 m s	- 2 25 8	58 14.8	15 53.7	196.525	+3.142	29.2		
15	13 55 7 49 23	- 0 34.5 So.7	57 37 7 37 1	15 43.6	210.136	+2.080	0.7		
16	14 45 0 49 53	-I4 59.3 5 24.0	56.57.0	15 32.5	223.417.	+0.926	1.7		
17	15 35 55 52 12	$-19\ 35.2\ 334.9$	56 15.7 41.3 38.7	15 21.3 10.6	236.355	-0.248	2.7		
18	16 28 7 53 16	-23 10.1 3 34.9 2 25.1	55 37.0	15 10.7	248.967	<del>-1.384</del>	3.7		
19	17 21 23 53 48	-25 35.2 I 9.9	55 3.5 25.9	15 1.6 7.0	261.293	-2.430	4.7		
20	18 15 11	-26 45.I 0 6.3	54 37.6	14 54.6	273.393	-3.348	5.7		
21	19 8 41 53 30	-26 38.8 1 19.6	54 20.9 6.5	14 50.0 1.8	285.339	-4.109	6.7		
22	20 1 0	-25 19.2 2 26 8	54 14.4	14 48.2 -1.1	297.209	-4.688	7.7		
23	20 51 53 48 57	-22 52.4	54 18.4	14 49.3	309.086	—5.067°	8.7		
24	21 40 50	-19 26.1 4 1618	54 32.7	14 53.2	321.049	-5.231	9.7		
25	22 28 9 46 10	-15 9.3 4 57.9	54 56.3	14 59.6	333.172	-5.165	10.7		
26	23 14 19 45 42	—IO II.4 5 29.1	55 27.8	15 8.2	345.516	<b>—</b> 4.861	11.7		
27	001	- 4 42.3 5 48.7	50 5.0	15 18.4	358.130	-4.318	12.7		
28	0 40 9	+ I 0.4	50 45.3	15 29.3	11.041	-3.545	13.7		
29	1 33 30 40 52	+ 7 1.2	57 25.0	15 40.3	24.256	-2.566	14.7		
30	2 23 30	+12 45.4	50 3.0	15 50.5 8.7	37.762	-1.423	15.7		
31	3 16 35 56 54	+17 59.0 4 19.9	58 34.8 24.5	15 59.2 6.6	51.525	-0.174	16.7		
Nov. 1	4 13 29 60 33	+22 18.9	58 59.3	16 5.8	65.497	+1.105	17.7		
2	5 14 2 63 8	+25 21.9	59 15.4 8.0	10 10.3	79.621	and the second second	18.7		
3	6 17 10 63 49	$+2648.7\frac{120.8}{019.4}$	59 23.4	16 12.4 0.2	93.838	+3.422	19.7		
4	7 20 59 62 20	+26 29.3	59 24.1 5.5	16 12.6	108.094	+4.305	20.7		
5	8 23 19 59 22	+24 26.1	59 18.6 10.3	16 11.1 2.8 16 8.3	122,339	+4.922	21.7		
· ·	9 22 41 55 49	+20 52.5 4 44.1	59 8.3	3.9	136.532	+5.236	22.7		
7	10 18 30 52 34	+16 8.4	58 53.9	16 4.4	150.637	+5.234	23.7		
8	II II 4 50 0	+10 35.7	58 30.0	15 59.5	164.620		24.7		
9	12 1 13 48 45	+ 4 35.0 6 9.3	58 14.7	15 53.7	178.452	+4.326	25.7		
10	12 49 58 48 23 13 38 21 48 23	- I 34.3 6 0.3	57 50.1 27.9 57 22.2	15 47.0 7.6	192.103 205.546	+3.491	26.7		
11	14 27 16 48 55	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	56 51.7	15 39.4 15 31.1	218.760	+2.474 $+1.339$	27.7 28.7		
And the second	50 0	4 53.8	32.2	0.0	1330				
13	15 17 24 51 42	-18 3.2 3 58.9	56 19.5	15 22.3 8.8	231.729	+0.155	0,2		
14	16 9 6 53 10 17 2 16 53 10	-22 2.1 2 52.4	55 47.1 55 16.5 30.6	15 13.5 8.4	244.447	-1:014	1.2		
15 16	17 2 16 54 5	-24 54.5 1 37.9	55 10.5 27.0	15 5.1	256.925 269.182	Section Control of the Control of th	The state of the		
-17	18 50 27 54 6	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	54 49.5	14 57.8 5.8 14 52.0	281,256	CONTROL DE LA CO	3.2 4.2		
1,8	19 43 34 53 7	-25 57 3 0 55.4	54 14.7 13.7	14 48.3	293.197	-3.922 $-4.570$	5.2		
The state of the s	31 04		4.7	1.3	ACCULATED NO	The same of the same of			
19	20 34 58 49 20	-23 52.2 3 6.2	54 10.0	14 47.0	305.064		6.2		
20	21 24 10	-20 40.0	54 15.3	14 48.5	316.928 328.865		7.2		
21	22 11 40 45 51 22 57 31	-16 47.8 3 30.2 -12 7.1 4 40.7	54 51.1 26.2	14 52.8 7.1	340.954				
23	23 42 35 45 4	- 6 52 0 5 14.1	54 57·3 55 33.0 35·7	14 59.9 15 9.6 9.7	353.270	Company of the Compan	10.2		
24	0 27 47 45 12	- I 14.8 5 38.2	56 16.5 43.5	15 21.5		-3.903			
24	0 2/ 4/		1 30 10.5	1 - 3 21. 3	3.003	1 3.903	11.2		

	Obere Kulmination in Greenwich Oh Länge, + 50° Breite									eite	
Tag '	AR.	Ände- rung für 1h westl. Länge	Dekl.	Ände- rung für i <sup>li</sup> wesil. Länge	Parallaxe	Zeit des Durch- gangs	Ände- rung für [h westl. Länge	Auf- gang	Ände- rung für ih westl. Länge	Unter- gang	Ände- rung für th westl. Länge
1947	h m s	s				h m	m	h m	m	h m	m
Okt. 14	13 30 28	127	- 6 38.8	-I 5.5	57.9	12 1.7	1.95	6 17	3.3	17 33	0.7
15	14 21 39	129	-1233.1	-13.9	57.3	12 48.8	1.98	7 35	3.2	17 50	0.8
16	15 13 44	132	-17 42.6	-11.7	56.6	13 36.8	2.03	8 53	3.2	18 11	1.0
17	16 7 10	135	-21 52.4	- 9.0	55.9	14 26.2	2.09	10 9	3. I	18 36	1.2
18	17 1 56	138	-24 51.0	<b>—</b> 5.8	55.2	15 16.9	2.13	11 21	2.9	19 8	1.5
19	17 57 33	139	<b>—</b> 26 30.6	- 2.4	54.8	16 8.4	2.15	12 27	2.5	19 48	1.9
20	18 53 9	138	-26 48.4	+ 1.0	54.4	16 59.9	2.13	13 22	2.1	20 39	2.3
21	19 47 47	135	-25 46.3	WELL STATE OF THE PARTY NAMED IN	54.3	17 50.5	2.07	14 6	1.6	21 39	2.6
22	20 40 44	130	-23 30.5	201000	54.3	18 39.3	2.00	14 40	1.3	22 45	2.8
23	21 31 40	125	-20 9.5	100000	54.5	19 26.2	1.91	15 7	1.0	23 54	2.9
24	22 20 44	121	-15 53.1	+11.7	54.9	20 11.2	1.84	15 28	0,8	-	-
25	23 8 25	118	—10 51.7	+13,4	55.4	20 54.8	1.80	15 45	0.7	I 5	3.0
26	23 55 31	118	- 5 15.0	+14.5	56.0	21 37.9	1.79	16 0	0.6	2 17	3.0
27	0 42 57	120	+ 0 42.1	The Control of the	56.7	22 21.2	1.83	16 15	0.6	3 29	3.0
28	1 31 50	125	+ 6 48.0	ALCOHOLD STATE OF	57.4	23 6.0	1.91	16 30	0.7	4 43	3.1
29	2 23 15	133	+12 43.9	+14.3	58.0	23 53.4	2.05	16 46	0.8	5 59	3.2
30					1 - L		7	17 6	0.9	7 18	3.4
31	3 18 17	143	+18 7.9	+12.5	58.6	0 44.4	2.21	17 31	1.2	8 41	3.5
Nov. 1	4 17 33	154	+22 34.3	+ 9.5	59.0	1 39.5	2.39	18 6	1.7	10 4	3.4
2	5 20 54	163	+25 36.5	+ 5.5	59.3	2 38.8	2.53	18 53	2.3	11 23	3.0
3	6 26 58	167	+26 52.8	The second second	59.4	3 40.7	2.60	19 56	2.9	12 30	2.5
4	7 33 25	164	+26 13.0	- 4.0	59.4	4 43.1	2.57	21 11	3.3	13 22	1.9
5	8 37 47	157	+23 42.7	-8.3	59.3	5 43.3	2.44	22 34	3.5	14 0	1.4
6	9 38 32	147	+19 39.7	-11.7	59.1	6 40.0	2,28	23 57	3.5	14 28	1.0
7	10 35 20	137	+14 28.0	-14.1	58.8	7 32.7	2.12		100	14 50	0.8
8	11 28 47	130	+ 8 32.1	E-0.20 (C) (C)	58.5	8 22,0	2.00	1 19	3.4	15. 7	0.7
9	12 19 55	126	+ 2 14.2	-15.9	58.1	9 9.1	1.93	2 39	3.3	15 23	0.6
10	13 9 57	125	- 4 5.2	-15.6	57.6	9 55.1	1.91	3 57	3.2	15 38	0.7
11	14 0 1	126	-10 7.7	-14.5	57.1	10 41.1	1.93	5 15	3.2	15 55	0.7
I 2	14 51 2	129	—ı 5 35.8	12.7	56.6	11 28.0	1.99	6 32	3.2	16 13	0.9
13	15 43 38	134	-20 13.1	-10.3	56.0	12 16.6	2.06	7 48.	3.1	16 36	I,I
14	TO SEE ASSESSMENT OF THE PARTY OF		-23 45.1	-7.3	55.5	13 6.8	2.13	9 3	3.0	17 5	1.4
15		10 10 10	-26 o.8	- 4.0	55.0	13 58.4	2.17	10 12	2.7	17 41	1.7
16		Maria Contract	-26 54.1	- 0.5	54.6	14 50.5	2.16	11 12	2.2	18 28	2. I
17	A STATE OF THE PARTY OF THE PAR		-26 24.7	+ 2.9	54.3	15 41.9	2.11	12 2	1.7	19 25	2.5
18		A PROPERTY OF THE PARTY OF	-24 38.2	+ 5.9	54.2	16 31.7	2.03	12 40	1.4	20 29	2.8
19	21 10 47	126	-21 43.4	+ 8.6	54.2	17 19.2	1.93	13 9	I,I	21 37	2.9
20	CONTRACTOR OF THE PARTY OF THE	- Late 1 Table	-17 50.9	十10.7	54.4		1.85	13 32	0.9	22 47	2.9
. 21	THE RESERVE TO STATE AND ADDRESS OF THE PARTY OF THE PART	A COLD STREET	-13 11.1			18 48.0	1.79	The second second second	0.7	23 57	2.9
22	A PRINCIPLE OF PARTY.		<b>- 7 53.9</b>	+13.9	55.4	COMMERCIAL PROPERTY AND ADDRESS OF THE PARTY A	1.76	14 6	0.6	- 0	1
23	ALTERNATION OF THE PARTY OF THE	117	- 2 9.3	+14.8	56.2		1.78	14 20	0.6	1 8 2 20	3.0
24	I 8 7	121	+ 3 51.2	十15.2	1 57.0	20 56.2	1.85	14 35	0.6	2 20	3.0

				o <sup>h</sup> Weltz	eit	(-1.41-		
Tag	3	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite	Alter
194	-7	h m s	. ,		18 S. 10 SE	-		d
Nov.	24	0 27 47 m s	- I 14.8 °	56 16.5	15 21.5	5.883	-3.903	11,2
2.0	25	T T4 8 40 21	+ 4 36 3 5 51.1	57 5.3 40.8	15 34.8	18.848	-3.004	12.2
	26	2 2 45 40 37	+10 26 4 5 50.1	57 CE 8 50.5	15 48 5 13.7	32.199	-1.919	13.2
	27	2 54 44 51 59	+15 57 2 5 30.8	58 43.9	16 1.6 3.1	45.942	-0.693	14.2
	28	2 50 55 50 11	+20 45.6 4 40.4	EO 25 2 41.3	16 12 0 11.3	60,049	+0.606	15.2
	29	4 51 35 64 17	+24 25 2 3 39.7	50 55.8 30.0	16 21 2 0.3	74.457	+1.893	16.2
	30 30	04 17	1 24 23.5 2 5.8	17.4	10 21.2 4.8		134 10	
	30	5 55 52 65 53	+26 31.1	60 13.2	16 26.0	89.073	十3.074	17.2
Dez.	I	7 1 45 64 53	+26 46.2 ° 15.1 1 37.5	60 16.6 3.4	$16\ 26.9\ \frac{0.9}{2.6}$	103.785	+4.058	18.2
	2	8 6 38	+25 8.7 2 16.0	60 6.9 9.7	16 24.3	118.476	+4.774	19.2
	3	9 8 21	+21 51.8	59 46.7	10 18.8	133.041	+5.175	20.2
	4	10 5 50	+17 10.0 F 25 8	59 19.0	10 11.2	147.401	+5.246	21.2
	. 5	10 59 31 50 27	+11 52.2 5 55.0	58 46.9 33.8	16 2.5 9.2	161.503	+4.998	22.2
	300				Electric de	7711 - 3740		- "E = 1
	6	11'49 58 48 26	+ 5 57.2 6 4.8	58 13.1	15 53.3	175.326	+4.463	23.2
	7	12 38 24 47 36	- 0 7.6 5 58.1	57 39.2 32.8	15 44.0 8.9	188.870	+3.688	24.2
	8	13 20 0	- 0 5.7 = 26.6	57 6.4 31.3	15 35.1 8.5	202,149	+2.729	25.2
	9	14 13 49 48 54	-II 42.3 5 I.2	56 35. I 29.7	15 26.6	215.184	+1.644	26,2
	10	15 2 43 50 32	-16 43.5 4 12.4	56 5.4 27.9	15 18.5 7.6	227.999	+0.495 -0.659	27.2
	II	15 53 15 52 16	-20 55.9 3 11.4	55 37-5 25.8	15 10.9 7.0	240.615	-0.059	20.2
	12	16 45 31	-24 72	E	16 20	253.050	—1.764	29.2
	13	17 39 10 53 39	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	55 11.7 23.2 54 48.5	15 3.9 6.4 14 57.5	265.320	-2.769	0.5
3 4 5	14	18 33 21 54 11	-26 52 T	E4 28 8 19.7	14 52 2 5.3	277.446	-3.635	1.5
	15	19 26 58 53 37	-26 to 2 0 32.0	54 13.6	14 48.0	289.448	-4.330	2.5
	16	20 19 2 52 4	1 04 24 2 45.0	54 4.3 2.1	14 45.5 0.6	301.357	4.830	3.5
	17	21 8 50 49 57.	-21 156	54 2:2 - 6 4	14 44.0 -	313.211	-5,120	4.5
		47 42	3 4212	0.4	1.7	The same		
	18	21 56 41	-18. 3.4 4 25.5	54 8.6	14'46.6	325.060	-5.191	5.5
	19	22 42 26 45 45	-13 3/.9 , 50 7	54 24.3 25.7	14 50.9 7.0	336.965	-5.039	6.5
17 TE TE	20	23 26 56 44 30	$-838.8_{523.8}^{439.1}$	54 50.0	14 57.9	348.995	-4.666	7.5
	21	0 11 0	- 3 15.0	55 25.6	15 7.6	1,228	-4.076	8.5
	22	0 55 41	+ 2 24.0	56 10.5 52.4	15 19.9 14.2	13.743	-3.281	9.5
1	23	I 42 7 49 24	+ 8 7.4 5 33.6	57 2.9 56.9	15 34.1	26.616	-2.300	10.5
122						STATE OF THE PARTY.		
1000	24	2 31 31 53 32	+13 41.0 5 4.9	57 59.8 57.2	15 49.6	39.911		11.5
	25	3 2 5 3 58 27	+18 45.9	58 57.0 52.4	16 5.2	53.666		12.5
	26	4 23 30 62 18	+22 57.3 2 70.2	59 49.4	16 19.5	67.885	+1.342	0.000
	27	5 20 48 66 42	+25 47.5	60 31.5	16 31.0 7.3	82.523	+2.559	14.5
	28	0 33 30	+20 51.4	60 58.4 8.8	16 38.3 2.4	97.481	+3.627	15.5
MI STATE	29	7 40 57 65 17	+25 56.3 2 48.6	61 7.2 9.9	16 40.7 2.7	112.617	+4.452	16.5
	1347				-6.0.			
	30	8 46 14 61 13	+23 7.7	60 57.3 26.1	16 38.0	127.760	+4.965	17.5
	31	9 47 27	+18 46.9 4 20.8	60 31.2	16 30.9	142.746	+5.132	18.5

4	116	Ober	e K u	lminat	ion i	n G	reenwi	ch -	0 <sup>h</sup> Lä	nge, +	- 50° Br	eite
Tag	The Park	AR.	Ände- rung für 1h westl. Länge	Dekl.	Ände- rung für 1 <sup>h</sup> westi. Länge	Parallaxe	Zeit des Durch- gangs	Ände- rung für 1h westl. Länge	Auf- gang	Ände- rung für I <sup>h</sup> westl. Länge	Unter- gang	Ände- rung für 1h westl. Länge
194	7	h m s	S	0. /	,	. 03	h m	m	h m	m	h m	m
Nov.	24	I 8 7	121	+ 3 51.2	+15.2	57.0	20 56.2	1.85	14 35	0.6	2 20	3.0
	25	1 57 58	129		+14.9	57.8	21 42.0	1.98	14 50	0.7	3 34	3.2
	26	2 51 25	139	+15 37.8	7 7	58.7	22 31.4	2.15	15 8	0.8	4 52	3.3
	27	3 49 31	152	+20 39.4	+11.3	59.4	23 25.4	2.35	15 31	I.I	6 14	3.5
	28	28 7 2 1 3	-			TITE			16. 1	1.5	7 38	3.5
	29	4 52 39	164	+24 28.3	+ 70	59.9	0 24.4	2.55	16 44	2.1	9 2	3.3
1	30	5 59 51	171	+26 35.3		60.2	1 27.5	2.68	17 42	2.8	10 17	2.8
Dez.	I	7 8 43	172	+26 41.1		60.3	2 32.3	2,68	18 57	3.3	11 17	2.2
	2	8 16 7.	164	+24 45.1	- 7.2 II.O	60.1	3 35.6	2.57	20 20	3.5	12 1	1.5
	3	9 19 41	153		100	59.7	4 35.0 5 29.8	2.38	21 45	3.5	12 33	0.9
	4 5	11 13 6	141	+16 7.1		58.6	6 20.2	2.03		3.4	13 15	0.7
		11 13 0	132	110 20.4	13.1	30.0	0 20.2	2.03		-	-3 -3	0.7
	6	12 4 30	126	+ 4 9.1	-I 5.7	58.0	7 7.6	1.93	0 28	3.3	13 31	0.7
	7	12 54 5	123	- 2 6.7	-	57.5	7 53.1	1.96	1 46	3.2	13 46	0.6
Ja 3/ 12	8	13 43 8	123	— 8 ro.c	1	56.9	8 38.1	1.88	3 2	3.2	14 2	0.7
	9	14 32 48	126	-1345.1	A SHARL SHAR	56.4	9 23.7	1.93	4 17	3.1	14 19	0,8
	10	15 23 56	130	-18 37.2		55.9	10 10.7	2.00	5 32	3.1	14 40	1.0
	11	16 16 59	135	—22 3I.8	- 8.4	55.4	10 59.7	2.08	6 47	3.0	15 5	1.2
19-1	12	17 11 52	139	-25 16.1	- 5.2	55.0	11 50.5	2.15	7 58	2.8	15 38	1.6
	13	18 7 51	140	-26 41.0	<b>— 1.8</b>	54.6	12 42.4	2.17	9 2	2.5	16 21	2.0
	14	19 3 48	139	-26 42.8		54.3	13 34.3	2.14	9 56	2.0	17 14	2.4
	15	19 58 28	134	-25 24.4		54.1	14 24.9	2.07	10 38	1.6	18 16	2.7
	16	20 50 59	128	-22 54.1	1 1 2 1	54.0	15 13.3	1.97	11 10	1.2	19 23	2,8
	17	21 40 59	122	-19 22.9	+ 9.9	54.1	15 59.2	1.86	11 35	0.9	20 32	2.9
	18	22 28 43	117	-I5 2.5	+11.7	54.3	16 42.9	1.78	11 55	0.8	21 41	2.9
	19	23 14 48		-IO 3.7	+13.1	54.7	17 24.9	1.73	12 12	0.6	22 50	2.9
2270	20	0 0 9	113	- 4 36.3	+14.1	55.3	18 6.2	1.72	12 26	0.6	-	-
	21	0 45 53		+ I 9.7	W 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	56.0	18 47.9	1.77	12 39	0.6	0 0	2.9
Part I	22	1 33 16	122		+14.7	56.9	19 31.2	1.86	12 54	0.6	III	3.0
	23	2 23 39	131	+12 50.8	+14.1	57.8	20 17.5	2.01	13 10	0.7	2 25	3.2
	24	3 18 25	143	+18 11.8		58.8	21 8.2	2.22	13 29	0.9	3 43	3.3
	25	4 18 37		+22 39.8	+ 9.6	59.8	22 4.3	2.46	13 55	1.3	5 6	3.5
	26	5 24 21		+25 42.9	+ 5.4	60.5	23 5.9	2.66		1.8	6 30	3.4
	27		-						15 22	2.5	7 51	3.1.
	28	6 34 2	the second second	+26 51.5		61.0	0 11.5	2.77	16 32 17 54	3.2	9 I 9 54	1.9
	29	7 44 33	174	+25 50.0	- 5.2	61.1	1'17.9	2.73	17 54	3.0	9 54.	1.9
	30	8 52 27	164	+22 45.7	- 9.9	60.9	2 21.7	2.57		3.7	10 32	1.4
	31	9 55 37	151	+18 4.9	-13.2	60.4	3 20.8	2.35	20 50	3.6	10 59	I.I

## Mond 1947

## Phasen des Mondes

1947	W	Veltzeit		1947	W	Veltzeit	
		h m				h m	
Jan.	7	4 47	Vollmond	Juli	ΙI	10 54	Letztes Viertel
	14	2 56	Letzteś Viertel		18	4 15	Neumond
	22	8 34	Neumond		24	22 54	Erstes Viertel
	30	0 7	Erstes Viertel	Aug.	2	1 50	Vollmond
Febr.	5	15 50	Vollmond		9	20 22	Letztes Viertel
	12	21 58	Letztes Viertel		16	11 12	Neumond
	21	2 0	Neumond		23	12 40	Erstes Viertel
	28	9 12	Erstes Viertel		31	16 34	Vollmond
März	7	3 15	Vollmond	Sept.	8	3 57	Letztes Viertel
	14	18 28	Letztes Viertel		14	19 28	Neumond
	22	16 34	Neumond.		22	5 42	Erstes Viertel
	29	16 15	Erstes Viertel		30	6 41	Vollmond
April	5	15 28	Vollmond	Okt.	7	10 29	Letztes Viertel
	13	14 23	Letztes Viertel		14	6 10	Neumond
	21	4 19	Neumond		22	1 11	Erstes Viertel
	27	22 18	Erstes Viertel		29	20 7	Vollmond
Mai	5	4 53	Vollmond	Nov.	5	17 3	Letztes Viertel
	13	8 8	Letztes Viertel		12	20 I	Neumond
	20	13 44	Neumond		20	21 44	Erstes Viertel
	27	4 35	Erstes Viertel		28	8 45	Vollmond
Juni	3	19 27	Vollmond	Dez.	5	0 55	Letztes Viertel
	II	22 58	Letztes Viertel		12	12 53	Neumond
	18	21 26	Neumond		20	17 43	Erstes Viertel
	25	12 25	Erstes Viertel		27	20 27	Vollmond
Juli	3	10 38	Vollmond		34	11 13	Letztes Viertel

## Mond in Erdnähe

## Mond in Erdferne

		************		100			137 1	
1947		Weltzeit	098	-	1947		Weltzeit	
		h		107200			h	
Jan.	6	14		100	Jan.	19	5	
Febr.	3	23	300		Febr.	15	21	
März	3	20	-		März	15	17	
März	29	13	1	5.874	April	12	13	
April	24	II			Mai	10	7	
Mai	22	7		Charles .	Juni	6	21	
Juni	19	14			Juli	4	3	
Juli	17	23		S 100	Juli	31	6	
Aug.	15	8	200	-h-s	Aug.	27	16	
Sept.	12	II			Sept.	24	7	
Okt.	9	18		3555	Okt.	22	3	
Nov.	3	14	135		Nov.	18	23	
Nov.	30	18			Dez.	16	18	
Dez.	28	23						
THE SECTION AS A PERSON.		CONTRACTOR OF CONTRACTOR		COLUMN TO SERVICE SERV				

		Obere Kul-		
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	mination in Greenwich
1947	h m s			h m
Jan. o	17 30 36.21 m s	-23 41 31.6	1.355 113	11 5.6
1	17 46 11.66 6 35.45	23 51 5.7 8 22.9	1.363 771 8 093	11 8.2
2	17 52 49.70 6 40.49	23 59 28.6 7 10.3	1.371 864 7 536	11 10.9
3	17 59 30.19	24 6 38.9 5 56.3	1.379 400 6 086	11 13.7
4	18 6 12.99 6 44.98	24 12 35.2	1.386 386 6 443	11 16.5
5	18 12 57.97 6 47.03	24 17 15.8	1.392 829 5 904	11 19.3
6	18 10 45.00	-24 20 30.6	1.398 733 5 369	11 22,2
7	18 26 33.98 6 48.98 6 50.80	24 22 45.3 ° 46.2	1.404 102	11 25.1
8	18 33 24.78	24 23 31.5 0 34.3	1.408 939	11 28,0
9	18 40 17.29 6 54.12	24 22 57.2	1.413 240	11 31.0
10	18 47 11.41	24 21 1,2	1.417 024	11 33.9
11	18 54 7.03 6 56.99	24 17 42.5	1.420 272 2 717	11 36.9
12	19 1 4.02 6 58.28	-24 13 O.I 6 7.I	1.422 989 2 184	11 40.0
13	19 8 2.30 6 59.44	24 6 53.0 7 32.8	1.425 173 1 647	11 43.0
14	19 15 1.74 7 0.51	23 59 20.2	1.426 820	11 46.1
15	19 22 2.25	23 50 20.9	1.427 924 557	11 49.1
16	19 29 3.72	23 39 54.2	1,428 481	11 52.2
17	19 36 6.03 7 3.05	23 27 59.4	1.428 482 564	11 55.3
18	19 43 9.08	23 14 35.7 t4 53.4	1.427 918	11 58.5
19	19 50 12.76	22 59 42.3	1.426 780	12 1.6
20	19 57 16.97	22 43 18.8	1.425 057 2 323	12 4.7
21	20 4 21.59 7 4.92	22 25 24.5 19 25.6	1.422 734 2 935	12 7.9
22	20 11 26.51 7 5.09	22 5 58.9 20 57.3	1.419 799 3 566 1.416 233	12 14.2
. 23	7 5.16	22 29.3	4-215	100 100 100 100 100 100 100 100 100 100
24	20 25 36.76	-21 22 32.3 <sub>24</sub> 1.7	1.412 018	12 17.3
25	20 32 41.84	20 58 30.6 25 34.0	1.407 137 5 571	12 20.5
26	20 39 46.72 7 4.51	20 32 56.6 25 34.0	1.401 566 6 283 1.395 283	12 23.6 12 26.7
27 28	20 46 51.23 7 3.99	20 5 50.1 28 38.6 19 37 11.5	1.388 262 7 021	12 20.7
29	20 53 55.22 21 0 58.52 7 3.30	19 7 I.O	1 280 476 7 700	12 33.0
	7 2.40	31 41.7	0 579	AND THE PERSON NAMED IN
30.	21 8 0.92 7 1.28	—18 35 19.3 <sub>33 12.1</sub>	1.371 897 1.362 495	12 36.1 12 39.2
Febr. 1	21 15 2.20 6 59.90	18 2 7.2 17 27 25.8 34 41.4	1.352 238	12 39.2
	21 22 2.10 6 58.24	17 27 25.8 16 51 16.9 36 8.9	1 341 004 11 144	12 45.2
3	21 29 0.34 6 56.25 21 35 56.59 6 52.85	16 13 42.2 3/ 34./	1 220 020	12 48.2
4	21 42 50.44 6 53.85 6 53.85	TE 24 14.4 30 57.0	1 316 000 13 020	12 51.1
		40 10.0	1.302 001	12 54.0
5 6	21 49 41.46 6 47.65	-14 54 26.4 41 34.1 14 12 52.3	1 286 074	12 56.9
	21 56 29.11 6 43.69	12 30 6.6 42 45.7	1.270 807	12 59.6
7 8	22 3 12.80 22 9 51.82 6 39.02	TO 46 TA 0 43 51.7	T 252 746 17, 151	13 2.3
9	22 16 25.34 6 27.10	12 1 24.0 44 50.9	T 225 500	13 4.8
10	22 22 52.44	—II 15 4I.7 45 42·3	1.216 145 19 355	13 7.3

Tag Scheinbare Rektaszension Scheinbare Deklination     1947	Obere Kulmination in Greenwich  h m 13 7.3 13 9.6 13 11.8 13.7 13 15.5 13 17.0 13 18.2
Rektaszension   Deklination   A	mination in Greenwich  h m 13 7.3 13 9.6 13 11.8 13 13.7 13 15.5 13 17.0
Febr. 10 22 22 52.44 m s 22 29 12.04 6 19.60 22 29 12.04 6 10.86 22 35 22.90 6 0.75 13 22 41 23.65 5 49.11 8 5 5 8.1 47 14.0 15 22 52 48.52 5 35.76 15 22 52 48.52 5 20.55  16 22 58 9.07 17 23 3 12.44 44.08 18 23 7 56.52 4 44.08 19 23 12 19.14 3 58.97 20 23 16 18.11 20 23 16 18.11 21 15 41.7 46 24.2 10 29 17.5 46 25.2 10 29 17.5 46 25.2 10 29 17.5 46 25.2 14 7 14.0 17 18.6 55.4 17 18.6 17 7 20 42.2 47 18.6 18 23 7 56.52 4 44.08 23 7 56.52 4 44.08 23 7 56.52 4 44.08 23 7 56.52 4 22 62 23 12 19.14 3 58.97 24 20 24.6 43 9.2 25 20 466 1.195 679 21 570 1.174 109 22 651 1.151 458 23 693 1.127 765 24 678 1.103 087 25 583 1.077 504 26 389 1.051 115 27 070 1.024 045 27 070 1.024 045 27 070 1.024 045 27 074	13 7.3 13 9.6 13 11.8 13 13.7 13 15.5 13 17.0
Febr. 10         22 22 52.44 m s         —11 15 41.7         46 24.2         1.26 14.5         1.26 14.5         20 466           11         22 29 12.04 6 10.86         10 29 17.5         46 24.2         1.195 679         21 570           12         22 35 22.90 6 0.75         9 42 22.1         46 55.4         1.195 679         21 570           13         22 41 23.65 5 49.11         8 55 8.1 47 14.0         1.151 458         23 693           14         22 47 12.76 5 35.76         5 35.76 5 20.55         7 20 42.2 46 38.1         1.127 765 24 678           15         22 58 9.07 5 20.55         7 20 42.2 46 38.1         1.03 087 25 583           16         22 58 9.07 5 3.37         6 34 4.1 5 49.8         1.077 504 26 389           18         23 7 56.52 4 44.08         5 3 33.8 44.05         1.051 115 27 000           18         23 7 56.52 4 22 62         4 22 62         4 20 24.6 49.8         1.051 115 27 000           19         23 12 19.14 3 58.97         3 30 0.0         4 14.7         0.968 467           20         23 16 18 11         3 58.97         3 30 0.0         4 14.7         0.968 467	13 7.3 13 9.6 13 11.8 13 13.7 13 15.5 13 17.0
11       22       29       12.04       6       10.86       10       29       17.5       40       24.2       24.2       24.2       24.2       24.2       22.2       46       55.4       47       14.0       11.195       67.9       21       570       11.174       109       21       570       11.174       109       22       651       11.174       109       22       651       11.151       45       8       55       8.1       47       18.6       11.151       45       8       36	13 9.6 13 11.8 13 13.7 13 15.5 13 17.0
12 22 35 22.90 6 0.75 13 22 41 23.65 5 49.11 14 22 47 12.76 5 35.76 15 22 52 48.52 5 20.55 16 22 58 9.07 17 23 3 12.44 44.08 18 23 7 56.52 4 44.08 19 23 12 19.14 3 58.97 20 23 16 18.11 21 40 55.4 21 47 14.0 21 47 18.6 21 47 14.0 21 47 14.0 21 47 14.0 21 47 18.6 21 47 14.0 21 47 18.6 21	13 11.8 13 13.7 13 15.5 13 17.0
13	13 15.5 13 17.0
14 22 47 12.70 5 35.76 8 7 49.5 47 7.3 1.127 705 24 678 1.103 087 25 583 16 22 58 9.07 44.08 23 7 56.52 44.08 23 7 56.52 42.262 53 33.8 44 40.5 19 23 12 19.14 3 58.97 20 23 16 18.11 3 58.97 20 23 16 18.11 3 58.97 20 23 16 18.11 3 58.97 20 23 16 18.11 3 58.97 20 24.6 41 14.7 20 268 467 27 974	13 17.0
15 22 52 48.52 5 20.55 7 20 42.2 46 38.1 1.103 087 25 583 16 22 58 9.07 - 6 34 4.1 45 49.8 1.077 504 1.051 115 27 070 1.051 115 27 070 1.024 045 27 604 0.996 441 20 24.6 41 14.7 20 23 16 18.11 3 58.97 23 12 19.14 3 58.97 20 23 16 18.11 3 58.97 20 23 16 18.11 3 58.97 20 23 16 18.11 3 58.97 20 24.6 41 14.7 20 26.8 467 27 974	
16 22 58 9.07	13 18.2
17 23 3 12.44 5 3.37 5 48 14.3 45 49.5 1.051 115 20 309 18 23 7 56.52 4 22 62 2 3 12 19.14 3 58.97 20 23 16 18.11 3 58.97 3 30 0.0 41 14.7 0.068 467 27 974	
18 23 7 56.52 4 44.66 5 3 33.8 44 40.5 1.024 045 27 604 19 23 12 19.14 3 58.97 20 23 16 18.11 3 58.97 3 30 0.0 41 14.7 0.068 467 27 974	13 19.2
19 23 12 19.14 4 22 02 4.6 43 9.2 0.996 441 27 004 20 23 16 18.11 3 58.97 3 30 0.0 41 14.7 0.968 467 27 974	13 19.8
20   23   10   18.11     3   30   0.0     0.008   407	13 20.0
J J J J J J J J J J J J J J J J J J J	13 19.8
21 23 19 51.25 3 33.14 3 0 13.4 38 56.5 0.940 312 28 155 21 3 5.21 3 0 13.4 36 14.3	13 19.1
22 22 26 46 - 2 22 50 1 0 012 174	13 18.0
23 23 25 31.83 2 35.37 1 50 50.5 33 3.0 0.884 266 27 903	13 16.4
24 23 27 35.66 2 3.03 1 21 10 5 29 40.0 0 856 806 27 400	13 14.2
25 23 29 6.58 1 30.92 0 55 20.6 25 49.9 0.830 012 20 794	13 11.5
26 23 30 3.59 0 57.61 0 33 40.1 21 40.5 0.804 102 25 910	13 8.2
27 23 30 26.19 0 22.60 0 16 26.0 17 14.1 0.779 283 23 533	13 4.3
28 23 30 14.44 - 0 3 51.9 0:755 750	12 59.9
März I 23 20 28.00 45.45 + 0 3 52.6 7 44.5 0.733 683 22 007	12 54.9
$2 \mid 23 \mid 28 \mid 11.20 \mid 17.79 \mid 0 \mid 6 \mid 42.6 \mid \frac{2 \mid 50.6}{2 \mid 11.20 \mid$	12 49.4
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	12 43.4
4 23 24 7.41 - 0 2 13.7 - 0 0.677 772	12 37.0
5 23 21 27.59 2 59.94 0 13 41.1 15 44.0 0.662 944 12 800	12 30.3
6 23 18 27.65 — 0 20 25.1 0.650 144	12 23,2
7 23 15 12.10 3 15.55 0 49 0.9 19 35.8 0.639 405	12 16.0
2 22 17 47 72 3 20.32 1 17 72 7 22 3/.2 0 620 722	12 8,6
9 23 8 13.67 3 32.11 1 37 42.5 25 44.4 0.624 102 6 630 1 37 42.5 27 54.3	12 1.1
10   23 4 40.78   2 5 30.8   0.019 408	11 53.7
11 23 1 11.87 3 20.51 2 35 2.2 29 25.4 0.616 760 871	11 46.4
12 22 57 51.36 - 3 5 20.5 0.615 880	11 39.2
13 22 54 43 16 3 8.20 3 25 55 0 30 34.5 0 616 750	11 32.3
14 22 51 50.63 2 52.53 4 6 11.6 30 10.0 0.619 228 2 478	11 25.6
15 22 49 16.48 2 13.67 4 35 40.4 28 15.0 0.623 201 3 973 5 342	11 19.3
10   22 47 2.81   5 3 55.4 6 60 8   0.628 543	11 13.3
17 22 45 11.12 1 31.09 5 30 35.2 24 47.4 0.635 127 7 703	11 7.7
18 22 43 42.36 — 5 55 22.6 0.642 830	11 2.5
19 22 42 36.98 3.30 6 18 4.5 22 41.9 0.651 533 703	10 57.7
20 22 41 55.05 0 18 28 6 38 31.5 28 57 0.661 125 9 392	10 53.2
21 22 41 36.27 0 284 6 56 37.2 15 40 8 0.671 500 10 3/3	10 49.1
22 22 41 40.11 7 12 18.0 0.682 562	10 45.4
23   22 42 5.82   - 7 25 32.0   0.694 223	10 42.1

		Oh Weltzeit		30.00
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	Obere Kul- mination in Greenwich
1947	h m s		THE STATE OF STREET	h m
März 23	22 42 5 82 <sup>m</sup> s	<b>-7 25 32.0</b>	0.694 223	10 42.1
24	22 42 52 51	7 36 19.5	0.706 402 12 626	10 39.1
25	22 43 59.22 1 25.69	7 44 41.8 5 59.2	0.719 028 13 010	10 36.4
26	22 45 24.91	7 50 41.0 3 39.3	0.732 038	10 34.0
27	22 47 8.55	7 54 20.3 1 22.7	0.745 373	10 31.9
28	22 49 9.08 2 16.41	7 55 43.0 0 50.1	0.758 985 13 842	10 30.1
29	22 51 25 40	-7 54 52 0	0.772 827	10 28.6
30	22 53 56.79	7 51 53.7	0.786 862 14 035	10 27.2
31	22 56 42 05 2 58 34	7 46 49.5 7 5.4	0.801 056 14 194	10 26,1
April 1	22 59 40 39 2 10.58	7 39 44.1 9 2.7	0.815 378 14 425	10 25.3
2	23 2 50 97	7 30 41.4	0.829 803	10 24.6
3	23 6 13.03 3 32.81	7 19 45.0 12 46.3	0.844 308	10 24.1
4	23 0 45 84	—7 6 58.7	0 858 872	10 23.8
5	23 13 28 75 3 42.91	6 52 25 0 14 32.0	0.873 480	10 23.6
6	23 17 21.16 3 52.41	6 36 0.0	0.888 115 14 635	10 23.6
7	23 21 22.53 4 1.37	6 18 14.0 17 55.9 19 33.0	0.902 764 14 651	10 23.8
8	23 25 32.34 4 9.81	5 58 41.0 21 6.9	0.917 415 14 643	10 24.0
9	23 29 50.17 4 17.83	5 37 34.1 22 38.1	0.932 058 14 625	10 24.4
10	23 34 15 61	-5 14 56 O	0 046 683	10 25.0
11	23 38 48 31 4 32.70	1 50 40 4	0.961 281	10 25.6
12	23 43 27 05 4 39.04	4 25 16.9 26 56.1	0.975 844 14 563	10 26.4
13	23 48 14 27 4 46.32	3 58 20.8 28 17.1	0.990 365	10 27.3
14	23 53 7.04 4 59.02	3 30 3.7 29 36.0	1.004 835	10 28.3
15	23 58 6.06 5 5.13	3 0 27.7 30 52.5	1.019 248	10 29.4
16	0 3 11 10	-2 20 35.2	1.033 506	10 30.5
17	0 8 22 31 5 11.12	T 57 28 2 32 7.0	1.047 870 14 274	10 31.8
18	0 13 30 32 5 17.01	1 24 0 0	1.062 062 14 192	10 33.2
19	0 10 2 17 5 22.05	0 49 39.5	1.076 161 13 997	10 34.7
20	0 24 30.85	—O 14 2.0 35 37.5 —36 43.6	1.090 158	10 36.3
21	0 30 5.34 5 34.49	+0 22 41.6 37 47.5	1.104 039 13 754	10 37.9
22	0 35 45 60	1 0 20 I	1 117 703	10 39.7
23	0 41 31 06 5 40.27	T 20 18 4 30 49.3	1.131 404	10 41.6
24	0 47 24 24 5 52.20	2 10 7 2	1.144 854 13 271	10 43.6
25	0 52 22 65 5 50 41	2 59 53.7	1.158 125	10 45.7
26	0 70 07 33	3 41 35.1 42 34.0	1.171 194	10 47.8
27	I 5 38.41 6 17.72	4 24 9.1 43 23.9	1.184 037 12 588	10 50.1
28	1 11 56 13 6	±5 7 23 0	1 106 625	10 52.5
29	1 18 20 66 4 4.33	E ET AA. T	1.208 927 11 981	10 55.1
30	7 24 52 24 6 31.50	6 26 20 2 44 33.4	1.220 908 11 619	10 57.7
Mai 1	T 2T 2T TT . 30.07	7 22 15.1 46 12.9	1.232 527 11 213	11 0.5
2	1 38 17 50 6	8 8 28.0 46 45.0	1.243 740	11 3.4
3	1 45 11.67 54.17	+8 55 13.9	1.254 496	11 6.4

	Oh Weltzeit			Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ .	mination in Greenwich
1947	h m s			h m
Mai 3	1 45 11.67 m s	+ 8 55 13.9	1.254 496	11 6.4
4	1 52 13.87	9 42 28.2 47 37.7	1.264 743 9 677	11 9.6
5.	1 59 24.35	10 30 5.9	1.274 420	11 12.9
6	2 6 43.32	II I8 I.3 48 6.8	1.283 463	11 16.3
7	2 14 10.98	12 6 8.1	1,291 802	11 19.9
8	2 21 47.50 7 45.47	12 54 19.4 48 7.9	1.299 362 6 705	11 23.7
9	2 29 32.97 7 54.46	+13 42 27.3 47 56.0	1.306 067 5 768	11 27.6
10	2 37 27.43	14 30 23.3 47 34.7	1.311 835	11 31.6
II	2 45 30.85	15 17 58.0	1,310 586	11 35.8
12	2 53 43.06	10 5 1.1	1,320 238	11 40.2
13	3 2 3.81 8 28.90	16 51 21.9	1.322 714	11 44.7
14	3 10 32.71 8 36.53	17 36 48.8 44 20.8	1.323 939	11 49.3
15	3 19 9.24 8 43.46	+18 21 9.6	1.323 850	11 54.0
1.6	3 2/ 52./0 8 40 58	19 4 11.9	1.322 392 2 866	11 58.9
17	3 30 42.28	19 45 43.5	1.319 526 4 300	12 3.8
18	3 45 37.02	20 25 32.0	1.315 226 5 740	12 8.8
19	3 54 35.01 9 1.64	21 3 25.8	1.309 486 7 168	12 13.9
20	4 3 37.45 9 3.21	21 39 14.1 33 33.0	1.302 318 8 564	12 19.0
21	4 12 40.66	+22 12 47.1	1.293 754 9 911	12 24.1
22	4 21 44.08	22 43 50.4 28 38.9	1.283 843	12 29.3
23	4 30 40.35 8 50.77	23 12 35.3	1,272 651	12 34.4
24'	4 39 40.12	23 38 38.5 23 24.1	1,200 257	12 39.4
25 26	4 48 42.05 8 50.85	24 2 2.6	1.246 753 14 516	12 44.4
20	4 57 32.90 8 44.57	24 22 45.8 2.1	1.232 237 15 423	12 49.2
27	5 6 17.47 8 37.20	+24 40 47.9	1,216 814 16 224	12 54.0
28	5 14 54.07 8 28.85	24 56 10.0	1,200 590	12 58.6
29	5 23 23.52 8 70.60	25 8 54.8 10 11.1	1.183 669	13 3.1
30	5 31 43.12	25 19 5.9 7 41.8	1,166 153 18 014	13 7.4
Juni 1	5 39 52.67 7 58.80	25 26 47.7 5 17.9	1.148 139 18 419	13 11.5
Juni i	5 47 51.47 7 47.46	25 32 5.6 2 59.8	1,129 720 18 740	13 15.5
2	5 55 38.93 7 35.58	+25 35 5.4	1,110 980 18 981	13 19.2
3	0 3 14.51	25 35 53.3 1 17.4	1,091 999	13 22.8
4	0 10 37.74	25 34 35.9	1.072 847	13 26.1
. 5	6 17 48.22 6 57.38	25 31 20.0 5 7.5 25 26 12.5 7.5	1.053 588 19 306	13,29.2
	6 24 45.60 6 43.96 6 31 29.56 6 20.26	25 20 12.5 6 52.1 25 19 20.4	1.034 282 19 303	13 32.1
7	0 30,20	o 2y.o	1,014 979 19 252	13,34.8
8	6 37 59.82 6 16.29	+25 10 50.6	0.995 727 19 160	13 37.2
9	0 44 10.11	25 0 50.0	0.976 567	13'39.4
10	6 50 18.20	24 49 25.5 12 41.8	0.957 535 18 870	13 41.4
11 12	6 56 5.87 5 47.07 7 1 38.88 5 33.01	24 36 43.7	0.938 665 18 678	13 43.1
STATE OF THE PARTY OF	7 1 38.88 5 18.13 7 6 57.01	24 22 51.5	0.919 987	13 44.6

	160000000000000000000000000000000000000	Oh Weltzeit		Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	mination in Greenwich
1947	h m s			h m
Juni 13	7 6 57.01 <sup>m s</sup>	+24 7 55.3	0.901 528	13 45.8
14	7 12 0.04 5 3.03	23 52 T 7	0.883 312	13 46.7
15	7 16 47.73 4 47.69	23 35 17.2	0,865 361 17 951	13 47.4
16	7 21 19.84	23 17 48.0 18 7.6	0.847 699	13 47.9
17	7 25 36.11	22 59 40.4 18 39.8	0.830 343	13 48.1
18	7 29 36,26 4 3.15	22 41 0.6 19 5.6	0.813 315 16 682	13 48.0
19	7 33 20 01	+22 21 55.0	0.796 633 16 315	13 47:6
20	7 36 47.07 3 27.06	22 2 29.6	0.780 318	13 46.9
21	7 39 57.10 3 10.03	21 42 50.6 19 39.0	0.764 389 15 522	13 46.0
22	7 42 49.80	21 23 4.1	0.748 867	13 44.7
23	7 45 24.84 2 17.05	21 3 10.3 10 42.8	0.733 775	13 43.2
24	7 47 41.89 1 58.74	20 43 33.5 19 31.7	0.719 135	13 41.4
25	7 40 40.63	+20 24 T.8	0.704 973	13 39.2
26	7 51 20.78	20 4 47.4 18 50.9	0.691 315	13 36.8
27	7 52 42.06 1 21.28	19 45 56.5 18 21.2	0.678 190	13 34.1
28	7. 53 44.25 0 42.94	19 27 35.3	0.665 627	13 31.0
29	7 54 27.19	19 9 50.0	0.053 661	13 27.6
30	7 54 50.80	18 52 46.6	0.642 325 10 668	13 23.9
Juli 1	7 54 55.07	178 36 37 2	0.631 657 9 961	13 19.8
2	7 54 40.14	18 21 9.5	0.621 696	13 15.5
3	7 54 6.28 0 33.86	18 6 47.3	0.612 483 8 422	13 10.8
4	7 53 13.92	17 53 30.0	0.604 061	13 5.8
5	7 52 3.69 1 27.28	17 41 22.4	0.590 474	13 0.6
- 6	7 50 36.41	17 30 29.4 9 34.3	0.589 768 5 779	12 55.1
7	7 48 53.15	17 20 55 1	0.583 989 4 807	12 49.3
8	7 46 55 24 1 57.91	17 12 42.0	0.579 182 3 788	12 43.3
9	7 44 44.21 2 22.32	17 5 55.9 5 19.7	0.575 394 2 726	12 37.1
10	7 42 21.89 2 31.56	17 0 30.2	0.572 668	12 30.7
ÍI	7 39 50.33 2 38.55	16 56 45.2	0.571 045	12 24.2
12	7 37 11.78 2 43.05	16 54 23.4 0 52.8	0.570 564 696	12 17.6
13	7 34 28.73	+16 53 30.6	0.571 260	12 11.0
14	7 31 43.78 2 44.95	16 54 5.4 2 0.5	0.573 163	12 4.3
15	7 28 50 62 2 44.15	16 56 5.9 3 23.1	0.570 299	11 57.7
16	7 26 19.05 2 40.58	10 59 29.0	0.580 687	11 51.1
17	7 23 44.78	17 4 10.9 5 56.4	0.580 342	11 44.7
.18	7 21 19.53 2 13.66	17 10 7.3 7 5.5	0.593 272 8 207	11 38.5
19	7 19 5.87	+17 17 12.8 8 8.7	0.601 479 9 481	11 32.4
20	7 17 6.22	17 25 21.5	0,610 960 10 746	11 26.6
21	7 15 22.84	17 34 27.2	0.621 706	11 21.1
22	7 13 57.74 r 5.02	17 44 22.8	0.633 702	11 15.9
23	7 12 52.72 0 43.39	17 55 0.9	0,646 928	11 11.1
24	7 12 9.33	+18 6 13.6	0.661 361	11 6.6

		Oh Weltzeit	•	Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	mination in Greenwich
1947	h m s		s a side of	h m
Juli 24	7 12 0.33 <sup>m</sup> s	+18 6 13.6	0.661 361	11 6.6
`25	7 11 48.80 0 20.44	18 17 52.8 11 39.2	0.676 970	II 2.5.
26	7 11 52.49	18 29 49.9 12 6.0	0.693 722	10 58.8
27	7 12 20.99	18 41 55.9	0.711 578 17 856	10 55.6
28	7 13 15.07 1 20.12	18 54 1.6 11 55.9	0.730 494 19 930	10 52.7
29	7 14 35.19 1 46.47	F9 5 57.5 11 36.1	0.750 424 20 890	10 50.3
30	7 16 21.66	+10 17 33.6	0.771 314	10 48.4
31	7 18 34.62 2 12.96	10 28 30 8	0.703 105 21 791	10 46.9
Aug. 1	7 21 14.07	19 39 5.8	0.815 731	10 45.8
2	7 24 19.88	19 48 40.6	0.839 121	10 45.1
3	7 27 51.76 3 31.88	19 57 13.5 7 19.7	0.863 194	10 44.9
4	7 31 49.33 4 22.73	20 4 33.2 5 55.5	0.887 864 25.170	10 45.1
5	7 36 12.06	+20 10 28.7	0.013 034	10 45.7
6	7 40 50 27 4 47.21	20 14 48.8 4 20.1	0.038 507	10 46.7
7	7 46 10.14 5 10.87	20 17 22 4 2 33.0	0.064 430	10 48.1
8	7 51 43.72 5 33.58	20 17 59.0 0 36.6	0 000 424 23 393	10 49.9
9	7 57 28 88 5 55.16	20 16 28.5	1.016 450	10 52.1
10	8 3 54.31 6 34.26	20 12 41.4 6 11.9	1.042 347 25 634	10 54.5
11	8 10 28 57	+20 6 20.5	1.067 081	10 57.3
12	8 17 20.05	10 57 45.0	1.003 203 25 222	11 0.3
13	8 24 26 08 7 6.93	19 46 25.1	1.117 867	11 3.6
14	8 31 47.40 7 20.51	10 22 22 4	1.141 830 23 903	11 7.1
15	8 39 19,63	19 15 39.2	1.164 959	11 10.8
16	8 47 1.38 7 41.75 7 49.34	18 56 12.5	1.187 130 22 171	11 14.6
17	8 54 50.72	+18 34 5.5	1.208 234	11 18.6
18	0 2 45.60 7 54.97	18 0 22.4	T 228 T8T 19 947	11 22.6
19	9 10 44.37	17 42 0.0 27 13.4	1.246.899	11 26.7
20	9 18 44.99	17 12 22 6 29 30.4	1.264 334 17 435	11 30.8
21	9 26 45.92	16'40 41 6 31 51.0	1.280 454	11 34.8
22	9 34 45.71	16 6 45.4 33 56.2 35 51.3	1.295 244 13 461	11 38.9
23	9 42 43.08	+15 30 54.1	1.308 705	11 42.9
24	9 50 36.94 7 53.86	14 53 17.0 37 30.2	1.320 855	11 46.8
25	9 58 26.38 7 49.44	14 14 7.2	1,331 722	11 50.7
26	10 6 10.70 7 44.32	13 33 32.2	T 2/T 2//	11 54.4
27	10 13 40.33	12 51 42.0 41 49.3	1.340 765	11 58.1
28	10 21 21.84 7 32.51 7 26.12	12 8 48.7 42 54.2	1.357 036 7 271	12 1.6
29	10 28 47.06	+11 24 58.5	1.363 211	12 5.1
30	10 36 7.50 7 19.54	10 40 20.6 44 37.9	1.368 343 5 132	12 8.4
31	10 43 20 38 7 12.00	0 55 20 45 17.7	1.372 487	12 11.6
Sept. 1	10 50 26.50 7 0.21	0 0 12.5	1.375 696 3 209	12 14.8
2	10 t7 26 20 39.01	8 22 55 8 40 10.7	1,378 023	12 17.8
3	11 4 19.32 6 53.12	+ 7 36 18.9 46 36.9	1.379 517	12 20.6

		Oh Weltzeit		Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	mination in Greenwich
1947	h m s	0 / /		h m
Sept. 3	h m s 11 4 19.32 m s	+ 7 36 18.9	1.379 5 i 7	12 20.6
4	11 11 6.08 6 46.76	6 49 27.2	1.380 225	12 23.4
5	11 17 46.68 6 40.60	6 2 25.8 47 1.4	1.380 180	12 26,1
6	TI 24 21 30 0 34.02	5 15 19.0	1.379 451 738	12 28.7
7	TT 20 FO T7 0 20.07	4 28 11.0	1.378 048	12 31.2
8	11 37 13.51 6 23.34 11 37 13.51 6 18.04	3 41 5.4 46 59.7	1.376 015 2 634	12 33.6
9	11 43 31.55 6 12.96	+ 2 54 5.7 46 50.7	1.373 381 3 205	12 35.9
10	11 49 44.51 6 8.12	2 7 15.0	1.370 170	12 38,2
11	11 55 52.63	1,20 36.1 46 24.5	1.300 424	12 40.3
12	12 1 56.12	+ 0 34 11.0	1.302 149	12 42.4
13	12 7 55.21 5 54.88	- 0 11 50,1	1.357 371 5 264	12 44.4
14	12 13 50.09 5 50.88	0 57 44.8 45 27.6	1.352 107 5732	12 46.3
15	12 10 40 07	— I 43 I2.4 45 4.6	1.346 375 6 187	12 48.2
16	12 25 28.03 5 47.06	2 28 17.0 45 4.0	1.340 188 6 630	12 50,0
17	12 31 11.45	3 12 56.7 44 13.0	1.333 558	12 51.8
18	12 30 51.39 5 36.60	3 57 9.7 43 44.7	1.326 496	12 53.5
19	12 42 27.99	4 40 54.4	1.319 012	12 55.1
20	12 48 1.39 5 30.33	5 24 9.3 42 43.4	1.311 114 8 306	12 56.7
21	12 53 31.72 5 27.36	- 6 6 52.7 42 10.4	1.302 808	12 58,2
22	12 58 59.08 5 24.48	6 49 3. 1 41 36.0	1.294 099	12 59.7
23	13 4 23.56	7 30 39.1	1.284 992 9 501	13 1,2 13 2,6
24	13 9 45.23 5 18.92	8 11 39.2 40 22.7	1.275 491 9 894	
25	13 15 4.15 5 16.20	8 52 1.9 39 43.7 9 31 45.6	1.255 313	13 3.9 13 5.2
26	13 20 20.35 5 13.50	39 3.4	10 0/3	Charles State State State
27	13 25 33.85 5 10.78	-10 10 49.0 38 21.4	1.244 640	13 6.5
28	13 30 44.63 5 8.04	10 49 10.4 37 38.0	1.233 578 1.222 126	13 7.7
29	13 35 52.67 5 5.24	11 26 48.4 36 52.7 12 3 41.1	1.210 285	13 8.9
Okt, 1	13 40 57.91 5 2.34	12 3 41.1 36 5.7 12 39 46.8	1.198 054	13 11.1
Okt. I	13 46 0.25 4 59.33 13 50 59.58	T2 T5 3.0 35 17.1	1.185 432	13 12,1
1000000	4 50.10	34 20.5	13 014	13 13.0
3	13 55 55.74 4 52.81	-13 49 30.4 33 33.8	1.172 418	13 13.9
4	14 0 48.55 4 49.21	14 23 4.2 32 39.1	1.145 208	13 14.8
5	14 5 37.76 4 45.34	14 55 43.3 31 42.0 15 27 25.3 20 42.5	T 131 OII 14 197	13 15.6
6.	14 10 23.10 14 15 4.23	7 5 58 7 8 30 42.3	1 116 410 14 39	13 16.3
7 8	14 10 40 76 4 30.53	16 27 48 1	1.101 433	13 16,9
9	14 24 12.24	—16 56 23 5	1.086 055	13 17.4
10	14 28 38.14	17 22 506	1.070 288 15 767	13 17.8
11	TA 22 57 85 4 19.71	17 50 6.2 25 0.2	1.054 130	13 18.2
12	14 37 10.66	18 15 6.4 23 40.7	1.037 007 16 896	13 18.4
13	14 41 15.80	18 38 47.1	1.020 711	13 18.4
.14	14 45 12.35 3 56.55	—I9 I 3.8	1,003 460 1/251	13 18.3

	O <sup>h</sup> Weltzeit			Obere Kul-
Tag	Scheinbare Rektaszensjon	Scheinbare Deklination	Δ	mination in Greenwich
1947	h m s		1987 FEB 1987 FEB 1988	h m
Okt. 14	14 45 12.35 m s	-19 I 3.8	1,003 460	13 18.3
15	14 48 50.30	19 21 51.5	0.085 871 17 509	13 18.1
16	74 52 25 50 3 30.20	19 41 4.6	0.067 066 17 905	13 17.6
17	14 55 50 66 3 24.10	19 58 36.9 17 32.3	0.949 772	13 17.0
18	14 50 10.34	20 14 21.6	0.931 3.22 18 663	13 16.1
19	15 2 5.95 <sub>2 38.78</sub>	20 28 10.8 13 49.2	0.912 659 18 825	13 14.9
20	TE 4 44 72	20 30 56.2	0.802.824	13 13.5
21	15 7 4.77	20 40 28.0	0 874 000 10 920	13 11.7
22	15 0 4.00	20 56 35.0 7. 7.9	0 855 055 10 953	13 9.5
23	15 10 40.23	21 1 8.0 4 32.1	0.837.065	13 6.9
24	75 77 77 76 1 10.93	21 2 51.6 1 43.6	0.818 3/13	13 3.9
25	15 12 34.43 0 43.27 0 13.32	21 1 32.7 4 35 9	0.799 914 17 992	13 0.5
26	77 70 45 55	-20 56 56 8	0.781 022	12 56.5
27	77 72 28 27 0 10.76	20 48 48.6	0.764 525 17 307	12 51.9
28	15 11 36.25	20 36 53.3	0.747.044	12 46.8
29	15 10 8.22	20 20 57.4	0.732 365	12 41.1
30	15 8 4.29 2 3.93	20 0 40 8	0.718 036 12 821	12 34.8
31	15 5 24.80 3 13.46	19 36 24.4 28 42.6	0.705 215 11 043	12 27.9
Nov. 1	15 2 11.34	—IO 7 4I.8	0.604 172	12 20.5
2	14 58 26.05 3 44.39	18 34 51.8 32 50.0	0 685 183	12 12.7
3	14 54 16.26 4 10.09	17 58 16.3 30 35.5	0 678 517	12 4.4
4	14 49 45.47	17 18 30.2 39 46.1	0,674 421	11 55.9
5	14 45 2.2.1 4 43.26	16 36 22.6 42 7.6	0.673 106 1 315	11 47.2
6	14 40 15:15 4 41.65	15 52 55.1 43 36.6	0.674 726 4 645	11 38.6
7	14 35 33.50	-15 Q 18.5	0.679 371	11 30.1
8	14 31 6.43	14 26 48.3	0.687 051	11 21.9
9	14 27 2.30	13 46 38.6 40 9.7.	0.607 608 10 047	11 14.2
10	14 22 28 64 3 33.75	13 9 56.7 30 41.9	0.711 166 13 468	11 7.0
11	14 20 30.85 2 57.79	12 37 38.3 32 18.4	0,727 242	11 0.4
12	14'18 12.96	12 10 24.5 21 43.5	0.745 659 20 451	10 54.5
13	14 16 37.16	—II 48 4I.O	0.766 110	10 49.3
14	14 15 44.10	11 32 38.5	0.788 260 22 159	10 44.8
15	14 15 33.09	11 22 15.0	0.811 806 23 537	10 41.0
16	14 16 2.46	11 17 17.8 4 57.2	0.836 398 24 592	10 37.8
17	14 17 9.80 7.34	11 17 26.9	0.861 738	10 35.3
18	14 18 52.28 1 42.48	11 22 17.2 4 50.3 9 3.4	0.887 549 26 031	10 33.3
19	14 21 6.84	—11 31 20.6	0.013 580	10 31.8
20	14 23 50.37 2 43.53	11 44 8.0 12 47.4	0.030 614	10 30.8
21	14 26 59.86 3 9.49	12 0 10 7	0.065 465 "3"	10 30.2
22	14 30 32.45	12 19 0.9	0.000 070	10 29.9
23	14 34 25.50 4 11.12	12 40 12.8	1.016 027 25 048	10 30.0
24	14 38 36.62	—I3 3 22.5 <sup>23 9.7</sup>	1.040 508 24 401	10 30.4

		Oh Weltzeit		Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	· <u>/</u>	mination in Greenwich
1947	h m s		A CARLON AND A	h m
Nov. 24	14 38 36.62 m s	—I3 3 22.5	1.040 508	10 30.4
25	14 43 3.67 4 27.05	13 28 8.4 24 45.9 26 2.5	1.064 344	10 31.0
26	14 47 44.75	13 54 10.9 27 1.8	1.087 472	10 31.8
27	14 52 38.21	14 21 12.7	1.109 849	10 32.8
28	14 57 42.58	14 48 58.3	1.131 444	10 34.0
29	15 2 56.61 5 22.62	15 17 14.2 28 34.2	1.152 237 19 981	10 35.4
30	15 8 19.23	—15 45 48.4 <sub>28 42.0</sub>	1,172 218	10 36.9
Dez. I	15 13 49.50 5 37.12	16 14 30.4	1.191 383	10 38.5
2	15 19 20.02	10 43 10.8	1.209 734 17 542	10 40.3
3	15 25 9.91 5 48.87	17 11 41.5	1.227 276 16 744	10 42.1
4	15 30 50.70	17 39 55.2	1.244 020	10 44.0
5	15 36 52.75 5 58.62	18 7 45.7 27 21.6	1.259 977 15 185	10 46.0
6	15 42 51.37 6 2.92	—18 35 7.3 <sub>26 47.6</sub>	1.275 162	10 48.0
7	15 48 54.29 6 6.90	19 1 54.9 26 9.3	1,289 588 13 683	10 50.2
8	15 55 1.19 6 vo 62	19 28 4.2 25 27.0	1.303 271	10 52.4
9	16 1 11.82	19 53 31.2	1.316 227	10 54.7
10	10 7 25.93	20 18 12.2	1.328 472	10 57.0
11	16 13 43.34 6 20.53	20 42 4.1	1.340 021 10 869	10 59.4
12	16 20 3.87 6 23.50	-21 5 3.8 <sub>22 4.9</sub>	1.350 890	11 1.8
13	10 20 27.37 6 26 25	21 27 8.7	1.361 093	11 4.3
14	10 32 53.72	21 48 10.3	1.370 643	11 6.8
15	16 39 22.79	22 8 24.4 10 62	1.379 555 8 285	11 9.3
16	16 45 54.48	22 27 30.7	1.387 840 7 670	11 11.9
17	16 52 28.70 6 36.66	22 45 33.4 16 57.0	1.395 510 7 066	11 14.6
18	16 59 5.36 6 39.02	23 2 30.4 <sub>15 49.8</sub>	1.402 576 6 470	11 17.3
19	17 5 44.38	23 18 20.2	1.409 046	11 20.0
20	17 12 25.68 6 43.50	23 33 1.0	1.414 930	11 22.8
21	17 19 9.18	23 46 31.1	1.420 230	11 25.6
22	17 25 54.81 6 47.68	23 58 49.1	1.424 969 4 167	11 28.4
23	17 32 42.49 6 49.66	24 9 53.5 9 49.4	1.429 136 3 605	11 31.3
24	17 39 32.15 6 51.56	24 19 42.9 8 32.9	1.432 741	11 34.2
25	17 46 23.71 6 53.39	24 28 15.8	1.435 788	11 37.2
26	17 53 17.10 6 55.12	24 35 31.0 5 56.2	1.438 279	11 40.1
27	18 O 12.22 6 56.78	24 41 27.2	1.440 210	11 43.1
28	18 7 9.00 6 58.36	24 40 3.0	1.441 599 829	11 46.1
29	18 14 7.30 6 59.83	24 49 17.3 r 51.6	1.442 428	11 49.2
30	18 21 7.19 7 1.22	24 51 8.9 0 27.6	1.442 699 289	11 52.3
31	18 28 8.41	24 51 36.5	1.442 410 854	11 55.4
32	18 35 10.91	-24 50 39.2	1.441 556	11 58.5

		Oh Weltzeit		Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	mination in Greenwich
1947	h m s			h m
Jan. o	15 37 49.16 <sup>m</sup> s	—15 22 31.7 har 7	0.462 311	9 2.1
- I	15 40 38.67	15 20 57.4	0.469 442 7 131	9 1.0
2	15 43 32.66 2 53.99	15 37 43.9 8 5.6	0.476 617 7 175	9 0.0
3	15 46 31.00 2 58.34	15 45 49.5 8 5.6 15 45 49.5	0.483 835 7 258	8 59.1
4	15 49 33.56 3 2.56	15 54 12.1 8 37.7	0.491 093	8 58.2
5	15 52 40.23 3 10.65	16 2 49.8 8 51.1	0.498 388 7 331	8 57.4
6	15 55 50.88	—16 11 40.9	0.505 710	8 56.7
7	TE 50 5.42 3 14.54	16 20 43.6	0.513 082 7 303	8 56.0
8	16 2 23.74	16 29 56.2	0,520 476 7 394	8 55.4
9	16 5 45 74	16 39 17.0	0.527 899 7 423	8 54.8
10	16 O II 31 3 25.57	16 48 44.2	0.535 348 / 449	8 54.3
11	16 12 40.37	16 58 16.2	0.542 820 7 472	8 53.9
12	16 16 12.80	9 35.2 —17 7 51.4	0.550 314	8 53.5
13	16 19 48.51	17 17 28.3	0.557 828 7 514	8 53.2
14	16 23 27 41 3 30.90	17 27 5.2 9 36.9	0 565 360 7 532	8 52.9
15	16 27 0.40	17 36 40,6 9 35.4	0.572 908 7 540	8 52.7
16	16 30 54.30 3 44.99	17 46 13.0 9 32.4	0.580 471 7 503	8 52.5
17	16 34 42.20	17 55 41.1	0 588 047 7 570	8 52.4
18	16 38 33.03	—18 5 3.6	0.595 634 7 587	8 52.3
19	16 42 26.51	18 14 18.8 9 15.2	0.603 232 7 598	8 52.3
20	16 46 22.65	18 23 25.7 9 6.9	0.610.840 7 908	8 52.3
21	16 50 21.38 3 58.73	TR 22 22 0 57.2	0.618 456 7 616	8 52.3 .
22	16 54 22.62 4 1.24	TR 4T 02 0 40.4	0.626 070 7 023	8 52.4
23	16 58 26.30	T8 40 42 6 " 34·3	0.633 700 7 030	8 52.5
at the second	4 0.03	0 21.0	1 - 33	
24	17 2 32.33 4 8.33	—18 58 4.6 <sub>8 6.8</sub>	0.641 344 7 639	8 52.7 8 52.9
25 26	17 6 40.66 4 10.55	19 6 11.4 7 51.3	0.648 983 7 644 0.656 627 7 648	8 52.9 8 53.2
	17 10 51.21 4 12.69	19 14 2.7 7 34.9 19 21 37.6	0.664 275 7 648	8 53.5
27 28	17 15 3.90	19 28 55.0 7 17.4	0.671 925 7 650	8 53.8
20	17 19 18.69 4 16.80 17 23 35.49	TO 25 54 0	0.679 577 7 652	8 54.1
	4 10.//	0 39.7	/ 034	
30	17 27 54.26	—19 42 33.7 6 19.5	0.687 231 7 656	8 54.5
31	17 32 14.92	19 40 53.2	0.694 887 7 656	8 54.9 8 55.4
Febr. 1	17 36 37.42 4 24.28	19 54 51.5 5 36.4	0.702 543 7 656	200
2	17 41 1.70 4 26.01	20 0 27.9	0.710 199 7 656	8 55.8 8 56.3
3	17 45 27.71	20 5 41.6 4 50.1	0.717 855 7 655	8 56.9
4	17 49 55.38 4 29.28	20 10 31.7	0.725 510 7 653	
5	17 54 24.66	20 14 57.6	0.733 163 7 650	8 57.4
6	17 58 55.48	20 18 58.0	0.740 813	8 58.0
7	18 3 27.80	20 22 33.8	0.748 400	8 58.6
8	18 8 1.54	20 25 42.7	0.750 102	8 59.2
9	18 12 30.04	20 28 24.5	0.763 739 7 630	8 59.9
10	18 17 13.05 4 30.41	-20 30 38.7	0.771 369	9 0.6

	O <sup>h</sup> Weltzeit			Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	mination in Greenwich
1947	h m s			h m
Febr. 10	18 17 13.05 m s	-20 30 38.7 <sub>1 46.0</sub>	0.771 369 7 624	9 0.6
11	18 21 50.08	20 32 24.7	0.778 993	9 1.3
12	18 20 29.48	20 33 42.0	0.786 608	9 2.0
13	18 31 9.37	20 34 30.1	0.794 216	9 2.7
14	18 35 50.29	20 34 40.5	0.801 814	9 3.4
15	18 40 32.16	20 34 36.7	0.809 402 7 578	9 4.2
16	18 45 14.03	-20 33 54.4	0.816 980	9 5.0
17	18 49 58.51 4 43.58	20 32 41.3	0.824 548 7 568	9 5.8
18	18 54 42.86 4 44.35	20 30 57.0	0.832 104 7 556	9 6.6
19	18 59 27.90 4 45.66	20 28 41.2	0.839 648 7 533	9 7.4
20	19 4 13.50	20 25 53.0	0.847 181	9 8.2
21	19 8 59.78 4 46.72	20 22 34.2 3 51.6	0.854 701 7 508	9 9.0
22	10 13 46.50	-20 18 42.6	0,862 209	9 9.9
23	10 18 33.65 4 47.15	20 14 18.7 4 23.9	0 860 704 7 495	9 10.7
24	10 22 21 18 4 47.53	20 0 22 5 4 50.2	0.877 187 7 403	9 11.6
25	10 28 0 02 4 47.84	20 3 53.0	0.884 657	9 12.4
26	10 32 57.12 4 48.10	10 57 52.7	0.802 113 7 450	9 13.3
27	19 37 45.42 4 48.45	19 51 19.1 7 6.2	0.899 557 7 444	9 14.1
28	19 42 33.87	19 44 12.9 <b>7 38.5</b>	0.906 988 7 418	9 15.0
März 1	19 47 22.42 4 48.61	19 36 34.4	0.914 406	9 15.9
2	19 52 11.03 4 48.62	19 28 23.4 8 43.3	0.921 810	9 16.7
3	19 56 59.65 4 48.59	19 19 40.1 9 15.6	0.929 201	9 17.6
4	20 I 48.24	19 10 24.5	0.930 579 7 364	9 18.5
5	20 6 36.76 4 48.39	19 0 37.0 10 19.4	0.943 943 7 350	9 19.4
6	20 11 25.15	18 50 17.6 10 51.2	0.951 293 7 335	9 20.2
7	20 16 13.40 4 48.05	18 39 26.4	0.958 028	9 21.1
8	20 21 1.45	18 28 3.7 11 54.0	.0.965 949	9 21,9
9	20 25 49.27 4 47.56	18 16 9.7	0.973 253	9 22.8
10	20 30 36.83	18 3 44.0	0.980 541 7 272	9 23.6
II	20 35 24.09 4 46.91	17 50 48.8	0.987 813 7 255	9 24.5
12	20 40 11.00	-17 37 22.5	0.995 068	9 25.3
13	20 44 57.55	17 23 26.1 14 26.2	1.002 304 7 218	9 26.1
14	20 49 43.70	17 8 59.9	1.009 522 7 200	9 27.0
15	20 54 29.42 4 45.72	16 54 4.3 15 24.6	1.016 722	9 27.8
16	20 59 14.67 4 44.77	16 38 39.7	1.023 902 7 160	9 28.6
17	21 3 59.44 4 44.25	16 22 46.5 16 21 3	1.031 062 7 141	9 29.4
18	21 8 43.60	-16 6 25.2 16 40.0	1.038 203	9 30.2
19	21 13 27.41 4 43.72	15 49 30.2	1.045 323	9 31.0
20	21 18 10.57 4 42.59	15 32 19.9	1.052 423	9 31.8
21	21 22 53.10	15 14 30.9	1.059 501	9 32.5
22	21 27 35.16	14 56 27.7	1.000 558	9 33.3
23	21 32 16.54	-14 37 52.8 The state of the st	1.073 594	9 34.0

		Oh Weltzeit		Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	4	mination in Greenwich
1947	h m s			h m
März 23	21 32 16.54 m s	—14 37 52.8 rg o.r	1.073 594 7 015	9 34.0
24	21 30 57.31	14 18 52.7 19 24.6	1.080 009	9 34.8
25	21 41 37.45	13 59 28.1 19 48.8	1.087 002	9 35.5
26	21 46 16.96	I 3 39 39.3 20 12.2	1.094 573	9 36.2
27	21 50 55.82	13 19 27.1 20 35.2	1.101 523 6 928	9 36.9
28	21 55 34.04 4 37.58	12 58 51.9 20 57.6	1.108 451 6 907	9 37.6
29	22 0 11.62	-12 37 54.3 <sub>21 19.3</sub>	1.115 358 6 886	9 38.3
30	22 4 40.50	12 16 35.0	1.122 244 6 865	9 38.9
31.	22 9 24.87	11 54 54.5 22 1.2	1.129 109 6842	9 39.6
April 1	22 14 0.50	II 32 53.3 <sub>22 21.2</sub>	1.135 952	9 40.2
2	22 18 35.03	II 10 32.I 22 40.8	1.142 773 6 800	9 40.9
3.	22 23 10.10 4 33.89	10 47 51.3 22 59.7	1.149 573 6 778	9 41.5
4	22 27 43.99	—10 24 51.6 <sub>23 17.9</sub>	1.156 351 6 755	9 42.1
5	22 32 17.30	IO I 33.7 23 35.7	1.103 100 6 722	9 42.7
6	22 30 50.05	9 37 58.0	1.109 838	9 43.3
7	22 41 22,20	9 14 5.2	1.176 547	9 43.9
8	22 45 53.94	8 49 55.9	1.183 232 6 661	9 44.5
9	22 50 25.11 4 30.69	8 25 30.7 24 40.4	1.189 893 6 636	9.45.1
10	22 54 55.80	- 8 0 50.3 <sub>24 55.2</sub>	1.196 529 6 611	9 45.6
11	22 59 26.02	7 35 55.1 25 9.1	1.203 140 6 584	9 46.2
12	23 3 55.78 4 20.34	7 10 46.0	1.209 724 6 558	9 46.7
13	23 8 25.12	6 45 23.5 25 35.2	1.216 282	9 47.3
14	23. 12 54.05	0 19 48.3 25 47.4	1.222 813	9 47.8
1-5	23 17 22.59 4 28.17	5 54 0.9 25 58.7	1.229 317 6 476	9 48.4
16	23 21 50.76	- 5 28 2.2 26 9.5	1.235 793 6 447	9 48.9
17	23 26 18.60 4 27.51	5 I 52.7 26 19.6	1.242 240	9 49.4
i 8	23 30 46.11 4 27.22	4 35 33.1 26 29.1	1.248 059 6 280	9 49.9
19	23 35 13.33 4 26.96	4 9 4.0 26 37.0	1.255 048 6 360	9 50.4
20	23 39 40.29 4 26.71	3 42 20.1 26 45.0	1.261-408	9 50.9
21	23 44 7.00 4 26.50	3 15 40.2 26 53.4	1.267 738 6 300	9 51.4
22	23 48 23 50	- 2 48 46 8	1.274 038	9 51.9
23	23 52 59.81 4 26.15	2 21 46.6 27 6.2	1.280 308 6 239	9 52.4.
24	23 57 25.96 4 26.02	1 54 40.4 27 11.7	1.286 547 6 210	9 52.9
25	0 1 51.98	1 27 28.7 27 16.4	1.292 757	9 53.4
26	0 0 17.90 4 25.86	I O 12.3 27 20.5	1.298 930	9 53.9
27	0 10 43.76	0 32 51.8	1.305 085 6 119	9 54.4
28	0 15 9.58 4 25.82	- 0 5 27.8 <sub>27 26.8</sub>	1.311 204 6 088	9 54.9
29	0 19 35.40 4 25.86	+ 0 21 59.0 27 29.0	1.317 292 6 058	9 55.4
30	0 24 1.20	0 49 28.0	1.323 350 6 028	9 55.8
Mai 1	0 28 27.19 4 26.04	1 10 58.5	1.329 378	9 56.3
2	0 32 53.23	1 44 29.8	1.335 375	9 56.8
3	0 37 19.42	+ 2 12 1.4	1.341 340	9 57.3

	O <sup>h</sup> Weltzeit			Ohana Wash
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	Obere Kul- mination in Greenwich
1947	h m s			h m
Mai 3	0 37 10.42 m s	+ 2 12 1.4 "	1,341 340	9 57-3
4	0 41 45.70	2 30 32.5 27 31.1	1.347 274 5 934	9 57.8
5	0 46 12 38 4 20.59	3 7 2.7 <sup>27 30.2</sup>	T 353 T77 5 903	9 58.3
6	0 50 20 22 4 20.04	3, 34 31.2 27 28.5	1.350 047	9 58.8
7	0 55 6.36 4 27.14	4 1 57.3	1.364 884 5 837	9 59.4
8	0 50 22 82 4 27.40	4 20 20.4 27 23.1	1.370 688 5 804	9 59.9
-	4 2/.02	+ 4 56 39.9	1.376 457	10 0.4
9	I 4 I.64 4 28.21 I 8 29.85	5 23 55.0	1.382 192 5735	10 0.9
11	1 12 58.50 4 28.65	5 51 5.1	T 287 802 5 700	10 1.5
12	T 17 27 61 4 29.11	6 18 0.6 27 4.5	T 202 556 3004	10 2,0
13	1 27 57 21	6 45 7.7	1.399 184	10 2.6
14	I 26 27 34	7 11 58.7	1.404 775 5 591	10 3.1
100000000000000000000000000000000000000	4 30.70	20 43.3	5 553	
15 16	1 30 58.04	+ 7 38 42.0 8 5 16.9 26 34.9	1.410 328 1.415 843	10 3.7
A STATE OF THE PARTY OF THE PAR	1 35 29.33 4 31.91	8 31 42.7	1.421 320 5 477	10 4.9
17 18	1 40 1.24 1 44 33.80	8 57 58.7	1.426 758 5 438	10 5.5
19	I 49 7.04 4 33.24	9 24 4.1	1.432 156 5 398	10 6,1
20	7 52 41 00 4 33.90	0.40 58.3 25 44.2	1 437 514 5 350	10 6.7
	4 34.00	25 42.2	3 310	STATE OF THE STATE
21	1' 58 15.68	+10 15 40.5 10 41 10.0	1.442 832 1.448 109 5 277	10 7.4
22	2 2 51.13 4 36.24	11 6 26.1	1.453 345 5 236	10 8.7
23	2 7 27.37 2 12 4.42 4 37.05	11 31 28.2	1.458 541	10 9.4
24	2 16 42 21 4 37.89	11 56 15.4	1.463 696 5 155	10 10.1
25 26	2 21 21.06 4 38.75	12 20 47.1	1.468 810 5 114	10 10.8
20	4 39.04	24 15.5	5 074	10 11 1
27	2 26 0.70	+12.45 2.6	1.473 884 5 032	10 11.5
28	2 30 41.20	13 9 1.2	1.478 916 4 992	10 12.2
29	2 35 22.70	13 32 42.2 23 22.8	1.483 908 1.488 859	10 13.8
30	2 40 5.22	13 56 5.0 23 3.8 14 19 8.8	1.493 768 4 909	10 14.6
31	2 44 48.67 4 44.45	14 19 8.8 14 41 52.9	1.498 635 4 867	10 15.4
Juni 1	2 49 33.12	22 23.8	4 023	400000000000000000000000000000000000000
, 2	2 54 18.60 4 46.52	+15 4 16.7	1,503 460 4 783	10 16.2
3	2 59 5.12	15 26 19.4 21 41.0	1.508 243 4740	10 17.0
4	3 3 52.70 4 48.66	15 48 0.4 21 18.6	1.512 983 4 697	10 17.9
5	3 8 41.30 4 49.75	16 9 19.0	1.517.680 4 653	10 19.7
6	3 13 31.11	16 30 14.4 20 31.6 16 50 46.0	1.522 333 4 609	10 20.6
7	3 18 21.96	Control of the Contro	4 504	
8	3 23 13.92 4 53.08	+17 10 53.2	1.531 506	10 21,5
9	3 28 7.00 4 54.19	17 30 35.2	1.530 025	10 22.4
10	3 33 1,19 4 55.32	17 49 51.3 18 49.6	1.540 498 4 426	10 23.4
11	3 37 50.51 4 56.44	18 8 40.9 18 22.3	1.544 924 4 379	10 24.4
12	3 42 52.95	18 27 3.2	1.549 303 1.553 635 4 332	10 25.4
13	3 47 50.52	+18 44 57.6	1 4.333 433	

- A		Oh Weltzeit		Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	mination in Greenwich
1947	h m s			ah m
Juni 13	3 47 50 52 m s	+18 44 57.6	1.553 635	10 26.4
14	3 52 49.21	19 2 23.5 16 56.6	i.557 018 4 203	10 27.5
15	3 57 49.00 4 59.79	19 19 20.1 16 26.6	1.562 153 4 235	10 28.5
16	4 2 49.90 5 0.90	19 35 46.7 15 56.2	1.566 338 4 135	10 29.6
17	4 7 51.88 5 1.98	19 51 42.9	1.570 473	10 30.7
18	4 12 54.94 5 4.11	20 7 7.8 14 53.2	1.574 558 4 035	10 31.8
19	4 17 59.05	+20 22 TO	1.578 503	10 33.0
20	4 23 4.20 5 5.15	20 36 21.7	1.582 577 3 904	10 34.1
21	4 28 10.36 5 6.16	20 50 0 3	1.586 510 3 933	10 35.3
22	4 33 17.51 5 7.15	21 3 23.3. 12 39.9	1.590 392 3 831	10 36.5
23	4 38 25.02	21 16 3.2	1.594 223 3 780	10 37.7
24	4 43 34.66 5 9.04 5 9.95	21 28 8.3 11 29.8	1.598 003 3 729	10 38.9
25	1 48 44.61	+21 30 38 1	1.601 732	10 40.1
26	4 53 55.44 5 10.03	07 50 00 0	1 605 410 3 078	10 41.4
27	4 50 7.11	22 0 50.1	1,609 038	10 42.6
28	5 4 19.60 5 12.49	22 10 31.2	1.612 615 3 577	10 43.9
29	5 0 32.87 3 13-27	22 19 35.3 8 26.4	1.616 141 3 526	10 45.2
30	5 14 46.88 5 14.01	22 28 1.7 7 48.5	1.619 615 3 423	10 46.5
Juli r	5 20 I.59	+22 35 50 2	1.623 038	10 47.8
2	5 25 16.96 5 15.37 5 16.00	22 43 0.3 6 31.4	1.626 410 3 372	10 49.1
3	5 30 32.96 5 16.57	22 49 31.7 5 52.4	1.029 731	10 50.4
4	5 35 49:53 5 17.10	22 55 24.1 5 13.0	1.632 999	10 51,8
5	5 41 6.63 5 17.59	23 0 37.1 4 33.3	1.030 214	10 53.1
6	5 46 24.22 5 18.03	23 5 10.4 3 53.4	1.639 377 3 110	10 54.5
7	5 51 42.25 5 18.41	+23 9 3.8 3 13.3	1.642 487	10 55.8
8	5 57 0.66 5 18.75	23 12 17.1 2 32.9	1.045 544	10 57.2
9	6 2 19.41 5 19.04	23 14 50.0	1.648 547	10 58.6
10	0 7 38.45	23 16 42.4	1.051 490	11 0.0
11	6 12 57.71	23 17 54.1	1.654 390	11 1.3
12	6 18 17.15 5 19.57	23 18 25.0 0 10.1	1.057 229 2 783	11 2.7
13	6 23 36.72 5 19.63	+23 18 14.9	1.660 012	11 4.1
14	0 28 50.35	23 17 23.8	1.662 740	11 5.5
15	6 34 16.00 5 19.60	23 15 51.7	1.005 412	11 6.9
16	0 39 35.00	23 13 38.5	1.668 026	11 8.3
17	0 44 55.09	23 10 44.3	1.670 584	11 9.7
18	6 50 14.42 5 19.12	23 7 9.1 4 16.0	1.673 084	11 11.0
19	6 55 33.54 5 18.84	+23 2 53.1 4 56.9	1.675 527 2 385	11 12.4
20	7 0 52.38 5 18.50	22 57 50.2	1.077 912	11 13.8
21	7 0 10.88 5 18.13	22 52 18.7 6 17.0	1.680 240	11 15.2
22	7 11 29.01	22 40 0.8 6 58.1	1.682 512	11 16.5
23	7 10 40.70	22 39 2.7	1.684 726	11 17.9
24	7 22 3.90	+22 31 24.5	1.686 883	11 19.2

		Oh Weltzeit		Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	mination in Greenwich
1947	h m s			h m
Juli 24	7 22 3 00 m s	+22 31 24.5	1.686 883	11 19.2
25	7 27 20 50 5 10.00	22 23 6.6	1.688 084 2 101	11 20.5
26	7 32 36.6 5 10.09	22 14 0.3	1.691 029	11 21.9
27	7 37 52.1	22 4 32.8 9 30.5	1.693 018	11 23.2
28	7 43 6.96	21 54 17.5 10 15.3	1,694 950 1 932	11 24.5
2,9	7 48 21.08 5 13.37	21 43 23.7 11 31.8	1.696 827 1 821	11 25.8
30	7 52 31 15	+21 31 51.0	1.608 648	11 27.0
31	7 58 47 06 5 12.01	21 10 42.4	1.700 414	11 28.3
Aug. 1	8 3 58.86 5 11.80	21 6 55.7	1.702 124	11 29.5
2	8 9 9.82 5 10.90	20 53 32.2 13 23 3	1.703 778	11 30.8
3	8 14 19.92 5 10.10	20 30 32.3	1.705 376 1 590	11 32.0
4	8 10 20.12 5 9.20	20 24 56.6 15 11.1	1.706 919 1 487	11 33.2
	8 24 37.41	+20 9 45.5	1,708 406	11 34.4
5	8 29 44.77 5 7.36	TO 52 50 5 15 40.0	1.700 837	11 35.6
7	8 34 51.16 <sup>5</sup> 6.39	IO 27 20 2	1.711 213	11 36.7
8	8 39 56.58 5 5.42	10 20 45 3	1.712 532 1 319	11 37.9
9	8 45 I.00 5 4·42	10 3 18.2 17 27.1	1.713 705	11 39.0
10	8 50 4,42 5 3.42	18 45 18 4 17 59.0	1.715 001	11 40.1
	5 2.40	+18 26 46.6	1,716 151	11 41.2
11	8 55 6.82 9 0 8.20 5 1.38	18 7 43.3	1.717 243	11 42.3
13	9 5 8.54 5 0.34	17 48 9.3	1.718 278	11 43.3
14	9 10 7.83 4 59.29	17 28 5.1	1.719 256 970	11 44.3
15	9 15 6.07 4 58.24	17 7 31.4	1.720 177	11 45.4
16	0 20 3 26 4 57.19	16 46 28.8 21 2.0	1,721 039	11 46.4
	4 50.14	21 30.7	1.721 844	11 47.4
17	9 24 59.40	+16 24 58.1 16 2 59.9	1.722 592 748	11 48.3
18	9 29 54.48 4 54.03	15 40 34.9	1.723 282 690	11 49.3
19	9 34 48.51 4 52.99	15 17 43.8	1.723 916	11 50.2
20	9 39 41.50 4 51.95	14 54 27.3	1.724 493 577	11 51.1
2 I 2 2	9 44 33.45 9 49 24.37	14 30 40.2	1.725 015	11 52.0
	4 49.91	24 5.2	405	A STATE OF THE STA
23	9 54 14.28	+14 6 41.0	1.725 480	11 52.9 11 53.8
24	9 59 3.19 4 47.93	13 42 12.6	1.725 891	11 53.6
25	10 3 51.12 4 46.97	13 17 21.7 25 12.8	1.726 548 301	11 55.4
26	10 8 38.09	12 52 8.9 25 33.9	1.726 795	11 56.3
27	10 13 24.12 4 45.11	12 26 35.0 25 54.3 12 0 40.7 26 74.0	1.726 989	11 57.1
28	10 18 9.23 4 44.22	20 14.0	141	
29	10 22 53.45	+11 34 26.7 26 33.0	1.727 130 87	11 57.9
30	10 27 30.80	11 7 53.7 26 51.1	1.727 217	11 58.6
31	10 32 19.31	10 41 2.6	1.727 252	11 59.4 12 0.1
Sept. 1	10 37 1.01	10 13 53.8 27 25.6	1,727 234 70	12 0.1
2	10 41 41.93	9 46 28.2 27 41.7	1,727 164 122 1,727 042	12 1.6
3	10 46 22.10	+ 9 18 46.5	1.727 042	

O <sup>b</sup> Weltzeit				
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	Obere Kul- mination in Greenwich
1947	h m s			h m
Sept. 3	10 46 22.10 m s	+ 9 18 46.5	1.727 042	12 1.6
4	10 51 1.55 4 39.43	8 50 49.4 28 11.8	1.726 868 174	12 2.3
5	10 55 40.32 4 38.77	8 22 37.6 28 25.7	1.726 642	12 3.0
6	II 0 18.44	7 54 11.9 28 20.0	1.726 365	12 3.7
7	11 4 55.94	7 25 32.9	1.726 036	12 4.4
8	11 9 32.87 4 36.38	6 56 41.3	1.725 655 432	12 5.0
9	11 14 025	+ 6 27 38.0	1.725 223	12 5.7
10	11 18 45.13	5 58 23.5 29 14.5 29 24.8	1.724 738 485	12 6.3
11	11 23 20.53 4 35.40 4 34.97	5 28 58.7	1,724 202 589	12 7.0
12	11 27 55.50 4 34.58	4 59 24.3 29 43.3	1.723 613	12 7.6
13	11 32 30.08	4 29 41.0	1.722 973 692	12 8.3
14	11 37 4.29 4 33.89	3 59 49.5 29 58.9	1,722 281 744	12 8.9
15	11 41 38.18	+ 3 20 50.6	1 721 537	12 9.5
16	11 46 11.79 4 33.01	2 59 45.2	1.720 741 847	12 10.1
17	11 50 45.14 4 33.35 11 50 45.14 4 33.15	2 29 33.8 30 11.4	1.719 894	12 10.7
18	11 55 18.29 4 32.98	1 59 17.2	1.718 996 948	12 11.3
19	11 59 51.27 4 32.84	1 28 56.3	1.718 048 998	12 11.9
20	12 4 24.11 4 32.76	0 58 31.7 30 27.6	1.717 050	12 12,5
21	12 8 56.87	+ 0 28 4.1	1.716 003	12 13.1
22	12 13 29.58 4 32.71	- 0 2 25.5 30 29.6	1.714 907 1 145	12 13.8
23	12 18 2.28 4 32.76	0 32 56.6 30 31.9	1.713 762 1 192	12 14.4
24	12 22 35.02 4 32.82	1 3 28.5	1.712 570	12 15.0
25	12 27 7.84	I 34 O.3	1.711 331	12 15.6
26	12 31 40.78	2 4 31.3 30 29.5	1,710 044	12 16,2
27	12 36 13.80	— 2 35 O.8	1.708 712	12 16.8
28	12 40 47.21 4 33.32	3 5 28. I 30 27.3 30 24.3	1.707 333 1 424	12 17.4
29	12 45 20.78 4 33.57	3 35 52.4 30 20.5	1.705 909 1 470	12 18.0
30	12 49 54.04	4 6 12.9	1.704 439	12 18.6
Okt. 1	12 54 28.85	4 36 29.0	1.702 925	12 19.3
2	12 59 3.43 4 35.02	5 6 40.0 30 5.0	1.701 367 1 602	12 19.9
3	13 3 38.45	— 5 36 45.0	1.699 765 1 646	12 20,5
. 4	13 8 13.93 4 35.48	6 6 43.3 29 50.9	1.698 119	12 21.2
5	13 12 49.93	6 36 34.2	1.696 429	12 21.9
6	13 17 20.49	7 0 17.0	1.094 095	12 22.5
7	13 22 3.04	7 35 50.8	1.092 918	12 23.2
8	13 26 41.43 4 38.46	8 5 15.0 29 13.8	1,691 097	12 23.9
9	13 31 19.89 4 39.18	- 8 34 28.8 <sub>29 2.5</sub>	1.689 233	12 24.6
10	13 35 59.07 4 39.93	9 3 31.3 28 50.6	1.687 325	12 25.3
11	13 40 39.00	9 32 21.9	1.085 374	12- 26,1
12	13 45 19.72	10 0 59.7	1.083 378	12 26.8
13	13 50 1,20	10 29 23.8	1.081 339	12 27.6
14	13 54 43.66	—10 57 33.7	1.679 257	12 28.3

		O <sup>h</sup> Weltzeit		Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	4	mination in Greenwich
1947	h m s	0 / /		h m
Okt. 14	13 54 43.66 m s	10 57 33.7 an san	1.679 257 2 126	12 28.3
15	13 59 20.94	II 25 28.4 27 54.7 27 38.6	1:677 131	12 29.1
16	14 4 11.14	II 53 7.0 27 21.9	1.674 961	12 29.9
17	14 8 56.28 4 46.13	12 20 28.9	1.672 749	12 30.7
18	14 13 42.41	12 47 33.2	1.070 495	12 31.6
19	14 18 29.53 4 48.16	13 14 19.1 26 26.6	1.668 198 2 338	12 32.4
20	14 23 17.69	-13 40 45.7	1.665 860	12 33.3
21	14 28 6.90 4 49.21	14 6 52.4	1.663 481 2 379	12 34.2
22	14 32 57.19	14 32 38.2	1.661 061 2 420	12 35.1
23	14 37 48.59 4 51.40	14 58 2.4 25 1.8	1.658 601 2 460	12 36.0
24	14 42 41.11 2 4 53.67	15 23 4.2 24 38.5	1.656 101 2 539	12 37.0
25	14 47 34.78 4 54.83	15. 47 42.7	1.653 562 2 578	12 37.9
26	14 52 20.61	-16 II 5722	1.650 984	12 38.9
27	14 57 25 62 4 50.01	16 35 46.0 23 49.7	1.648 368 2010	12 39.9
28	15 2 22 83 4 57.21	16 59 11.0 23 24.1	1.645 713	12 40.9
29	15 7 21 24 4 58.41	17 22 8.7 22 57.7	1.643 021	12 42.0
30	15 12 20.88 4 59.04	17 44 30.2	1.640 202 2 729	12 43.0
31	15 17 21.75 5 0.87 5 2.11	18 6 41.8	1.637 526 2 766	12 44.1
Nov. 1	15 22 23.86	—18 28 15.7	1.634 724	12 45.2
2	15 27 27.22 5 3.30	18 49 20.1	1.631 886 2 838	12 46.4
3	15 32 31.82 5 4.00	19 9 54.2	1.629 011 2 911	12 47.5
4	15 37 37.67 5 5.05	19 29 57.4	1.626 100 2 946	12 48.7
5	15 42 44.77	19 49 28.8 18 59.0	1.023 154	12 49.9
6	15 47 53.11 5 8.34 5 9.57	20 8 27.8 18 25.7	1.620 171 3 020	12 51.1
7	15 53 2.68	-20 26 53.5	1.617 151	12 52.3
8	15 58 13 47 5 10.79	20 44 45.3	1,614 095 3 056	12 53.5
9	16 3 25.47	21 2 2 4	1.611 003 3 129	12 54.8
10	16 8 38.65	21 18 44.1 16 5.6	1.007 874	12 56.1
11	16 13 53.00 5 14.35	21 34 49.7	1.004 709	12 57.4
12	16 19 8.48 5 15.48	21 50 18.6	1.601 507 3 239	12 5.8.7
13	16 24 25.08	-22 5 10.1	1.598 268	13 0.1
14	16 20 42.75 5 17.07	22 19 23.4	1.594 992 3270	13 1.4
15	16 25 1 46 5 10.71	22 32 58.1	1.591 680 3 312	13 2.8
16	16 40 21.17	22 45 53.5 12 15.5	1.588 331	13 4.2
17	16 45 41.84 5 20.67 5 21.60	22 58 9.0 12 15.5	1.504 94/	13 5.6
18	16 51 3.44 5 22.46	23 9 44.0 10 54.1	1.581 526 3 455	13 7.1
19	16 56 25.0b	-23 20 38.1 <sub>10 12.6</sub>	1.578 071	13 8.5
20	17 1 49.20 5 28.30	23 30 50.7 9 30.7	1.574 580.	13 9.9
21	17 7 13.27	23 40 21.4 8 48.2	1.571 054 3 560	13 11.4
22	17 12 38.06 5 24.79 5 25.47	23 49 9.6	1.507 494	13 12.9
23	17 18 3.53	23 57 15.0 7 22.3	1.503 899 3 620	13 14.4
24	17 23 29.60	<del>-24</del> 4 37·3	1.560 270	13 15.9

		O <sup>h</sup> Weltzeit		Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	mination in Greenwich
1947	h m s			h m
Nov. 24	17 22 20 60 m s	-24 4 37.3	1.560 270	13 15.9
25	17 28 56.23 5 20.03	24 11 15.0	1.556 608 3 662	13 17.4
26	17 34 23.36 5 27.13 5 27.56	24 17 10.7 5 54.8	1.552 913 3 695	13 18.9
27	17 39 50.92 5 27.93	24 22 21.4 4 26.2	1.549 185 3 760	13 20.4
28	17 45 18.85 5 28.25	24 20 47.0	1.545 425	13 22.0
29	17 50 47.10 5 28.50	24 30 29.2 2 56.7	1.541 632 3 824	13 23.5
30	17 56 15.60 5 28.68	24 33 25.9	1.537 808	13 25,0
Dez. 1	18 1 44.28 5 28.81	24 35 37.7	1.533 952 3 888 3 888	13 26.6
2	18 7 13.09 5 28.86	24 37 4.3 0 41.5	1.530 064 3 919	13 28.1
3	18 12 41.95	24 37 45.8 0 3.7	1.526 145 3 951	13 29.6
4	18 18 10.81	24 37 42.1	1.522 194	13 31.2
5	18 23 39.59 5 28.65	24 36 53.1	1.518 211 4 015	13 32.7
6	18 29 8.24 5 28.44	24 35 18.8	1.514 196	13 34.3
7	18 34 36.68 5 28.16	24 32 59.3	1.510 149 4 080	13 35.8
8	18 40 4.84	24 29 54.7	1.506 069	13 37.3
9	18 45 32.00	24 20 5.0	1.501 956	13 38.8
10	18 5.1 0.07	24 21 30.5	1.497 810	13 40.3
II	18 56 27.00 5 26.39	24 16 11.4 6 3.6	1.493 631 4 212	13 41.8
12	19 1 53.39	<b>—24 10 7.8</b>	1.489 419	13 43.3
13	10 7 10.17 5 25.70	24 3 20.0	1 485 173	13 44.8
14	19 12 44.28 5 25.11	23 55 48 3 7 31.7	1.480 804 4 279	13 46.3
15	19 18 8.65 5 24-37	23 47 33. I 8 58.4	1.476 581 4 313	13 47.8
16	19 23 32.23 5 23.58	23 38 34.7	1.472 235 4 346	13 49.2
17	19 28 54.97 5 21.82	23 28 53.5 10 23.7	1.467 856 4 413	13 50.6
18	19 34 16.79	-23 18 29.8 <sub>11 5.5</sub>	1.463 443 4 446	13 52.0
19	19 39 37.05	23 7 24.3	1.458 997	13 53.4
20	19 44 57.51	22 55 37.3	1.454 519 4 512	13 54.8
21	19 50 10.31	22 43 9.4	1.450 007	13 56.2
22	19 55 34.00	22 30 I.O	1.445 403	13 57.5
23	20 0 50.55 5 15.37	22 16 12.8 14 27.4	1.440 886 4 608	13 58.8
24	20 6 5.92	-22 1 45.4	1.436 278	14 0.1
25	20 11 20.06 5 14.14	21 46 39.3	1.431 637 4 641	14 1.4
26	20 16 32.96 5 11.62	21 30 55.2 16 21 6	1.426 965 4 703	14 2.7
27	20 21 44.50	21 14 33.6	1.422 202	14 3.9
28	20 20 54.88	20 57 35.4	1.417 528 4 764	14 5.1
29	20 32 3.87 5 7.64	20 40 1:0 18 9.8	1.412 764 4795	14 6.3
30	20 37 11.51 5 6.28	-20 2I 5I.2 <sub>18 44</sub> 5	1.407 969 4 826	14 7.5
31	20 42 17.79	20 3 6.7 19 18.6	1.403 143	14 8.7
32	20 47 22.70 3 4.91	—19 43 48.1 <sup>19 18.8</sup>	1.398 286 4 57	14 9.8

		O <sup>h</sup> Weltzeit		Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	mination in Greenwich
1947	h m s		(A) 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	h m
Jan. o	18 45 6.28 m s	23 54 43.5	2.413 816	12 9.5
·I	18 48 26.67 3 20.39	23 51 24.8	2.412 932	12 8.9
2	18 51 47.04 3 20.37	23 47 49.9	2.412 O29 903 922	12 8,3
3	18 55 7.40 3 20.36 3 20.31	23 43 59.0 4 6.9	2.411 107 940	12 7.7
4	18 58 27.71	23 39 52.1 4 23.0	2.410 167 958	12 7.1
5	19 1 47.98 3 20.20	23 35 29.1 4 39.0	2.409 209 974	12 6.5
6	10 5 8.18	-23 30 50.I	2.408 235	12 5.9
7	19 8 28, 30 3 20.12	22 25 55 2 4-54-9	2.407 244	12 5.3
8	19 11 48.32 3 20.02	23 20 44.4	2,406 238	12 4.7
9	19 15 8.25 3 19.93	23 15 17.7	2.405 216	12 4.1
10	19 18 28.06 3 19.81	23 9 35.3 5 42.4 5 58.2	2.404 178	12 3.5
II	19 21 47.75 3 19.54	23 3 37.1 6 13.8	2.403 126	12 2.8
12	19 25 7.29	-22 57 22 2	2.402 058	12 2.2
13	10 28 26.60 3 19.40	22 50 53 0	2.400 975	12 1.6
14	19 31 45.91	22 44 8.0	2.399 876	12 1.0
15	19 35 4.96 3 19.05	22 37 8.6 7 ° · · 3 7 × · 5 · 7	2.398 762 1 114	12 0,4
16	19 38 23.82 3 18.66	22 29 52.9 7 31.0	2.397 634	11 59.7
17	1.9 41 42.48 3 18.43	22 22 21.9 7 46.1	2,396 490	11 59.1
18	19 45 0.91 3 18.20	22 14 35.8 8 1.2	2.395 331	11 58.5
19	10 48 10.11	22 6 34.6	2.394 157 1 189	11 57.8
20	19 51 37.07 3 17.96	21 58 18.4 8 31.0	2.392 968	11 57.2
21	19 54 54.77	21 49 47.4 8 45.7	. 2.391 705	11 56.5
22	19 58 12.20	21 41 1.7 9 0.3	2.390 548	11 55.9
23	20 1 29.35 3 16.86	21 32 1.4 9 14.8	2.389 317 1 245	11 55.2
24	20 4 46.21 3 16.56	-21 22 46.6 9 29.2	2.388 072	11 54.6
25	20 8 2.77 3 16.24	21 13 17.4 9 43.3	2,386 813	11 53.9
26	20 11 19.01 3 15.91	21 3 34.1 9 57.5	2.385 542	11 53.2
27	20 14 34.92	20 53 36.6	2.384 258	11 52.5
28	20 17 50.50	20 43 25.2	2.382 962	11 51.8
29	20 21 5.73 3 14.88	20 33 O.I 10 38.8	2.381 655	11 51.1
30	20.24 20.61	-20 22 21.3 10 52.3	2.380 336	11 50.4
31	20 27 35.13 3 14.52	20 11 29.0	2.379 007	11 49.7
Febr. 1	20 30 49.28 3 13.78	20 0 23.4 11 18.7	2.377 009	11 49.0
2	20 34 3.00	19 49 4.7 11 31.8	2.376 322 1 356	11, 48.3
3	20 37 10.40	19 37 32.9	2.374.900	11 47.6
4	20 40 29.49 3 12.64	19 25 48.3 11 57.3	2.373 602	11 46.9
5	20 43 42.12	-19 13 51.0 <sub>12 9.9</sub>	2.372 230	11 46.1
6	20 46 54.36 3 11.86	19 1 41.1	2.370 851	11 45.4
7	20 50 6.22	18 49 18.9	2.369 465	11 44.6
8	20 53 17.08	18 36 44.5	2.368 072	11 43.9 11 43.1
9	20 56 28.75	18 23 58.0 12 58.3	2.366 671 2.365 264	11 43.1
10	20 59 39.42		2.305 204	11 42.4

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	ESTATE AND	Oh Weltzeit		Obere Kul-
Tag	Scheinbare Rektaszension	Scheinb <b>a</b> re Deklination	Δ	mination in Greenwich
1947	h m s			h m
Febr. 10	20 50 30.42 m s	-18 10 59.7	2.365 264	11 42.4
11	21 2 49.69 3 10.27	17 57 40 6	2,363 849 1415	11 41.6
12	21 5 59.56 3 9.07	17 44 28.0	2.362 427	11 40.8
13	21 9 9.03 3 9.47	17 30 55.1	2.360 998 1 429	11 40.0
14	21 12 18.08 3 9.05	17 17 11.0	2.359 561 437	11 39.2
15	21 15 26.73 3 8.05	17 3 16.0 13 55.0	2.358 117 1 444	11 38.4
16	21 18 34.07	-16 40 to t	2,356 665	11 37.6
17	21 21 42.80 3 7.03	16 24 52 6 4 10.5	2.355 206 459	11 36,8
18	21 24 50 21 3 7.41	16 20 26.8	2.353 730	11 36.0
19	21 27 57.20 3 6.99	16 5 40 7	2.352 265	11 35.2
20	21 31 3.78 3 0.50	15 51 27	2 350 784	11 34.3
21	21 34 9.93 3, 5.74	15 36 5.8 15 6.5	2.349 295 1 489	11 33.5
22	21 37 15.67	If 20 f0 2	2.347 700	11 32.6
23	21 40 20.98 3 5.31	TE E 42 4 23 25.9	2.346 296	11 31.8
- 24	21 43 25.88 3 4.90	14 50 18.3	2.344 786 1 516	11 30.9
25	21 46 30.35 3 4.47	14 34 44.3 15 42.8	2.343 270	11 30.0
26	21 49 34.41	14 19 1.5 15 51.4	2.341 748	11 29.2
27	21 52 38.05 3 3.22	14 3 10.1 15 59.8	2.340 221	11 28.3
28	21 55 41.27 3 2.80	-13 47 10.3 16 7.9	2.338 688	11 27.4
März 1	21 58 44.07 3 2.40	13 31 2.4 76 75.8	2.337 151	11 26.5
2	22 1 46.47 3 1.99	13 14 40.0	2.335 609 1 545	11 25.6
3	22 4 48.46 3 1.59	12 58 23.0 16 31.1	2.334 064 1 549	11 24.7
4	22 7 50.05 3 1.20 22 10 51.25	12 41 51.9 16 38.5 12 25 13.4	2.332 515	11 23.8
5	3. 0.00	10 43.7	2.330 963	
6	22 13 52.05	—12 8 27.7 16 52.5	2.329 408	11 21.9
7	22 10 52.48	11 51 35.2	2.327 851	11 21.0
8	22 19 52.53 2 59.67	111 34 35.8 <sub>17 5.0</sub>	2.326 291 1 563	11 20.0
9	22 22 52.20 2 59.32	11 17 29.9 17 12.3	2.324 728 1 567	11 19.1
10	22 25 51.52 2 58.96 22 28 50.48 2 58.60	11 0 17.6 17 18.5	2.323 161 1.569 2.321 592	11 17.1
	22 20 30.40 2 58.60		2 5/2	
12	22 31 49.08	—10 25 34.7 <sub>17 30.2</sub>	2.320 020 I 576	11 16.2
13	22 34 47.34 2 57.92	10 8 4.5	2.318 444 1 581	11 15.2
14	22 37 45.20	9 50 20.7	2.316 863	11 14.2
15	22 40 42.85 2 57.26	9 32 47.5 17 46.3	2.315 279 1 589	11 13.2
16	22 43 40.11 2 56.93 22 46 37.04 2 56.63	9 15 1.2 17 51.3 8 57 9.9	2.313 690° 1593 2.312 097	11 12.2 11 11.2
17	2 30.02	17 50.1	<b>4</b> 590	
18	22 49 33.66 2 56.31	- 8 39 13.8 <sub>18 0.6</sub>	2.310 499 1 603	11 10.2
19	22 52 29.97 2 56.00	8 21 13.2 18 5.0 8 3 8.2	2.308 896 1 608	11 9.2 11 8.2
20 21	22 55 25.97 22 58 21.66 2 55.69	7 44 50 7 18 9.1	2.307 288	11 7.2
22	22 1 17 07 2 55.41	7 26 46.1	2.305 675 1 618 2.304 057 1 624	11 7.2
23	23 4 12.18 2 55 11	-7 8 29.4 1 18 16.7	2.302 433	11 5.2
Marie San	23 4 12.10	9.4	2.302 433	A STATE OF THE

200	A) W II I			
		Oh Weltzeit		Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	mination in Greenwich
1947	h m s			h m
März 23	23 4 12.18 <sup>m</sup> s	- 7 8 29.4 18 20.1	2.302 433 1 630	11 5,2
24	23 7 7.00 2 54.54	6 50 9.3	2.300 803	11 4.1
25	23 10 1.54 2 54.27	0 31 45.8	2.299 168	11 3.1
26	23 12 55.81	6 13 19.3	2.297 529	II 2.I
27	23 15 49.81	5 54 49.9	2.295 884	II I.O
28	23 18 43.55 2 53.48	5 36 17.9 18 34.4	2.294 235 I 654	11 0.0
29	23 21 37.03 2 53.23	- 5 17 43.5 18 36.7	2.292 581	10 58,9
30	23 24 30.26 2 53.00	4 59 6.8 18 38.7	2.290 923	10 57.9
31	23 27 23.20	4 40 28.1	2.289 261	10 56.8
April 1	23 30 10.02	4 21 47.0	2.287 596	10 55.7
2	23 33 8.50	4 3 5.4 <sub>18 43.7</sub>	2.285 927 1 672	10 54.7
3	23 36 0.89	3 44 21.7 18 44.9	2.284 255 1 675	10 53.6
4	23 38 53.02	- 2 25 26 8	2.282 580 1 679	10 52.5
5	23 41 44.95	3 6 50.7 18 46.1	2.280 901 1 683	10 51.4
6	23 44 36.70 2 51.75	2 48 3.8 18 47.8	2.279 218 1 686	10 50.4
7	23 47 28.28 2 51.41	2 29 16.0	2.277 532	10 49.3
8	23 50 19.69 2 51.25	2 10 27.7	2.275 842	10 48.2
9	23 53 10.94 2 51.11	1 51 39.1 18 48.9	2.274 147 1 700	10 47.1
10	23 56 2.05 2 50.97	— I 32 50.2 <sub>18 48.8</sub>	2.272 447	10 46.0
II	23 58 53.02 2 50.84	I I4 I.4 18 48.6	2.270 742	10 44.9
12	O I 43.86 2 50.71	0 55 12.8	2.269 031	10 43.8
13	0 4 34.57 2 50.60	0 36 24.4	2.207 314	10 42.7
14	0 7 25.17 2 50.40	- 0 17 36.6 <sub>18 47.0</sub>	2.205 591	10 41.6
15	0 10 15.66	+ 0 1 10.4 18 46.1	2:263 860 1737	10 40.5
16	0 13 6.04 2 50.30	+ 0 19 56.5 18 45.0	2.262 123	10 39.4
17	0 15 56.34	0 38 41.5	2.200 378	10 38.3
18	0 18 46.54 2 50.12	0 57 25.1 18 42.2	2.258 024	10 37.2
19	0 21 36.66 2 50.05	1 16 7.3 18 40.5	2.256 862	10 36.1
20	0 24 26.71	I 34 47.8	2.255 092	10 35.0
21	0 27 16.69 2 49.91	I 53 26.3 18 36.5	2.253 312 r 788	10 33.9
22	0 30 6.60	+ 2 12 2.8	2.251 524 1 798	10 32,8
23	0 32 56.45	2 30 37.0	2.249 726	10 31.7
24	0 35 46.25 2 49.80	2 49 8.7 18 20.1	2.247 919	10 30.6
25	0 38 36,00 2 49.75	3 7 37.8 78 26.2	2,246 104	10 29.4
26	0 41 25.71	3 26 4.0 18 23.1	2.244 279	10 28.3
27	0 44 15.39 2 49.65	3 44 27.1 18 20.0	2.242 445 1 842	10 27.2
28	0 47 5.04	+ 4 2 47.1 18 16.6	2.240 603	10 26.1
29	0 40 54 67 2 49.03	4 21 3.7 18 13.0	2.238 753	10 25.0
30	0 52 44.29 2 49.62	4 39 10.7	2.230 894	10 23.9
Mai 1	0 55 33.91 2 49.62	4 57 20. I 18 5.5	2.235 026	10 22.8
2,	0 58 23.53	5 15 31.0 18 1.4	2.233 149	10. 21,6
3	1 1 13.17	1 + 5 33 33.0	2.231 264	10 20.5

1 - 90		O <sup>h</sup> Weltzeit		Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	mination in Greenwich
1947	h m s		3 11 1 1 1 1 1 1	h m
Mai 3	I I I 3.17 m s	+ 5 33 33.0	2.231 264	10 20,5
4	I 4 2.83	5 51 30.3 1/ 3/.3	2,220 370	10 19.4
5	1 6 52.53 2 49.70	6 0 23.2 1/ 32.9	2.227 466	10 18.3
6	I Q 42.26 2 49.73	6 27 11.71	2.225 553	10 17.2
7	I 12 32.04 2 49.78	6 44 55.5 17 43.0	2,223 629	10 16.1
8	1 15 21.87 2 49.89	7 2 34.5 17 39.0	2.221 695 1 934	10 15.0
9	1 18 11.76	+ 7 20 8.6	2 210 740	10 13.9
10	I 2I I.7I 2 49.95	7 37 37.5	2 217 702 1 957	10 12.8
11	1 23 51 74	7 55 1.2	2 215 822	10 11.7
12	1 26 41 85 2 50.11	8 12 10 4	2.213 841	10 10.5
13	I 29 32.04 2 50.19	8 29 32.0	2.211 846	10 9.4
14	I 32 22.32 2 50.28	8 46 38.9 17 1.0	2.209 837 2 009	10 8.3
15	Ť 25 T2 70	1 0 2 20 0	2 207 812	10 7.2
16	7 28 2 77 2 50.47	0 20 34.8	2.205 775	10 6,1
17	I 40 53 74 2 50.57	0 37 23.5	2 203 721	10 5.0
18	T /3 // /T	0 54 5.8	2 201 651	10 3.9
19	I 46 35.10 2 50.78	10 10 41 5	2.199 565 2 103	10 2.8
20	1 49 26.09 2 50.98	10 27 10.5	2.197 462 2 120	10 1.8
21	2 51.00 1 52 17.09	+10 43 32.6	2.105 342	10 0.7
22	I 55 8.20 2 51.11	10 50 47.6	2 103 205 2 137	9 59.6
23	7 57 50 42 2 51.23	11 15 55.4	2.101.051	9 58.5
24.	2 0 50.77	11 31 55.8	2.188 880 2 171	9 57.4
25	2 3 42.24 2 51.47	11 47 48.7	2.186 691	9 56.3
26	2 6 33.82 2 51.58	12 3 33.9 15 45.2 15 37.4	2.184 486 2 223	9 55.2
27	2 9 25.53	+12 10 11.3	2.182 263	9 54.1
28	2 12 17,38 2 51.85	12 34 40.8	2.180 024	9 53.1
29	2 15 9.35 2 51.97	12 50. 2.2 15 13.2	2.177 767 2 274	9 52.0
30	2 18 1.46 2 52.11	13 5 15.4 15 4.9	2.175 493 2 292	9 50.9
31	2 20 53.72	13 20 20.3	2.173 201	9 49.9
Juni 1	2 23 46.12 2 52.54	13 35 16.7	2,170 892 2 327	9 48.8
2	2 26 38.66	+13 50 4.6	2.168 565	9 47.7
3	2 29 31.36 2 52.70	14 4 43.7	2,166 219 2 346 2 365	9 46.7
4	2 32 21.21 2 52.85	14 19 14.1	2.163 854	9 45.6
5	2 35 17.22 2 53.01	14 33 35.6	2,161 470	9 44.6
6	2 30 10.39	14 47 48.0	2.159 066	9 43.5
7	2 41 3.72 2 53.49	I5 I 51.2 13 54.0	2.156 641 2 446	9 42.4
8	2 43 57.21	+15 15 45.2	2.154 195 2 467	9 41.4
9	2 46 50.86 2 53.65	15 29 29.7	2.151 728	9 40.4
Control of the last of the las	2 49 44.08	15 43 4.8	2.149 238	9 39.3
11	2 52 30.05	15 50 30.2	2.140 725 2 536	9 38.3
12	2 55 32.79	10 9 45.8	2.144 189	9 37.2
13	2 58 27,09 2 34.33	+16 22 51.6 13 5.0	2.141 628	9 36.2

		O <sup>h</sup> Weltzeit		Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	mination in Greenwich
1947	h m s			h m
Juni 13	2 58 27.09 m s	+16 22 \$1.6	2.141 628	9 36.2
14	3 I 21.55 2 54.46	16 35 47.4 16 35 47.4 12 45.7	2.139 043 2 585 2 611	9 35.1
. 15	3 4 16.16 <sup>2 54.61</sup>	16 48 33.1 12 35.5	2.136 432 2 636	9 34.1
16	3 7 10.93 2 54.92	17 1 8.6 12 35.3	2.133 796 2 663	9 33.1
17	3 10 5.85 2 55.06	17 13 33.8 12 14.7	2.131 133	9 32.1
18	3 13 0.91 2 55.20	17 25 48.5	2.128 443 2 717	9 31.0
19	3 15 56.11	+17 37 52.6	2 125 726	9 30.0
20	3 18 51.44	17 40 46.0	2.122 982 2 744	9 29.0
2,1	3 21 46.90	18 I 28.7	2.120 211	9 28.0
22	3 24 42.40	18 13 0.4 11 20.8	2.117 413 2 826	9 27.0
23	3 27 38.20 2 55.71	18 24 21.2	2.114 587	9 26.0
24	3 30 34.03 2 55.94	18 35 30.9 10 58.6	2.111 734 2880	9 25.0
25	2 22 20 07	18 46 20.5	2.108 854	9 23.9
26	2 26 26 02	18 57 160 10 47.4	2,105 947	9 22.9
27	2 20 22 10	10 7 52 0	2.103 012 2 935	9 21.9
2.8	2 12 18 15	10 18 17.5	2,100 050	9 20.9
29.	2 45 14 82 2 50.37	10 28 30.8	2.097 060 2 990	9 19.9
30	3 48 11.29 2 56.47	19 38 32.5 9 50.2	2.094 042 3 018	9 18.9
Juli 1	2 51 7 86	±10 48 22 7	2,090 995	9 17.9
2	2 54 4 50	TO 58 T 2	2.087 920 3 075	9 16.9
3	2 57 1 26 2 50.74	20 7 28.1	2.084 815 3 105	9 15.9
4	2 50 58 00 2 50.03	20 16 43.3 9 3.3	2.081 681 3 134	9 14.9
5	4 2 55.00 2 56.91	20 25 46.6 8 51.5	2.078 516 3 196	9 14.0
6	4 5 51.99 2 57.05	20 34 38.1 8 39.6	2.075 320 3 227	9 13.0
7	1 8 10 01	120 43 17 7	2.072 093	9 12.0
8	1 11 16 15 2 57.11	20 51 45.3	2.068 834 3 259	9 11.0
9	1 11 13 32 2 57.17	21 0 00	2.065 542 3 292	9 10.0 -
10	1 17 10 53 2 57.21	21 8 4.5	2.062 217 3 325	9 9.0
II	4 20 37.79 2 57.26	21 15 56.0 7 51.5	2.058 859 3 358	9 8.0
12	4 23 35.08 2 57.29	2I 23 35.3 7 39.3 7 27.1	2.055 466 3 3428	9 7.0
13	-6 10	+21 31 2.4	2.052 038	9 6.0
14	1 20 20.72	21 38 17.4 7 15.0	2.048 574 3 404	9 5.0
15	4 32 27.05	27 45 20 0 7 2.0	2.045 074 3 536	9 4.1
16	1 25 24 38 4 51.33	21 52 10.4 6 50.4	2.041 530	9 3.1
17	4 28 21 68 237.30	21 58 48.4 6 25.6	2.037 965 3 573 3 611	9 2.1
18	4 41 18.95 2 57.23	22 5 14.0 6 13.3	2.034 354 3 647	9 1.1
19	1 11 16.18	<b>1</b> 122 11 27 3	2.030 707	9 0.1
20	1 17 T2 35 20 111	22 17 28 1	2.027 022 3 005	8 59.1
21	1 50 10 46	22 23 16.5	2.023 301 3 721	8 58.1
22	1 52 7 50 2 37.04	22 28 52.4 5 23.5 5 23.5	2.019 542 3 759 3 796	8 57.1
23	4 56 4 45 2 50.95	22 34 15.9 5 11.1	2.015 740	8 56.2
24	4 59 1.31	+22 39 27.0	2.011 914	8 55.2

	O <sup>h</sup> Weltzeit				
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	Obere Kul- mination in Greenwich	
1947	h m s			h m	
Juli 24	4 50 1.31 m s	+22 39 27.0	2.011 914	8 55.2	
25	5 I 58.06 2 50.75	22 44 25.7	2,008 045	8 54.2	
26	5 4 54.71	22 40 11.0	2.004 138 3 907	8 53.2	
27	5 7 51.24	22 53 45.7	2.000 195	8 52.2	
28	5 10 47.64 2 56.40 2 56.27	22 58 7.1	1.996 214 4 018	8 51,2	
29	5 13 43.91 2 56.12	23 2 16.2 4 9.1	1.992 196 4 056	8 50.2	
30	5 16 40.03	+23 6 12.9	1,988 140	8 49.1	
31	5 19 36.01 2 55.98	23 9 57.3 3 44.4	1.984 045	8 48.1	
Aug. 1	5 22 31.82 2 55.81 2 55.65	23 13 29.5 3 32.2	1.979 912 4 133	8 47.1	
2	5 25 27.47	23 16 49.3 3 7.6	1.975 741 4 212	8 46.1	
3	5 28 22.94	23 19 56.9 2 55.5	1.971 529	8 45.1	
4	5 31 18.22 2 55.08	23 22 52.4 2 43.2	1.967 278 4 291	8 44.1	
5	5 34 13.30	+23 25 35.6	1.962 987	8 43.0	
6	5 37 8,17 2 54.87	23 28 6.7 2 31.1	1.958 655 4 332	8 42.0	
7	5 40 2.83 2 54.66	23 30 25.8 2 7.0	1.954 281 4 374	8 41.0	
8	5 42 57.26 2 54.43	23 32 32.8	1.949 866 4 458	8 39.9	
9	5 45 51.46 2 53.94	23 34 27.8	1.945 408 4 50i	8 38.9	
10	5 48 45.40 2 53.68	23 36 10.9	1.940 907	8 37.9	
II.	5 51 39.08 2 53.41	+23 37 42.1	1.936 363	8 36,8	
12	5 54 32.49	23 39 I.4	1.931 774 4 632	8 35.8	
13	5 57 25.00	23 40 8.9 0 55.8	1.927 142	8 34.7	
14	0 0 18.41	23 41 4,7	1.922 465	8 33.6	
15	0 3 10.91	23 41 48.9	1.917 743	8 32.6	
16	0 0 3.08 2 51.83	23 42 21.4 0 21.0	1.912 976 4811	8 31.5	
17.	6 8 54.91	+23 42 42.4 0 9.6	1.908 165	8 30.4	
18	6 11 46.37	23 42 52.0 - 1.8	1.903 309	8 29.3	
19	0 14 37.47	23 42 50.2 0 13.0	1.898 409	8 28.2	
20	0 17 28.19	23 42 37.2	1.893 404	8 27.1	
21	0 20 10.53	23 42 12.9 0 35.3	1.888 475 5 032	8 26.0 8 24.0	
22	6 23 8.46 2 49.53	23 41 37.6 a 46.3	1.883 443 5 076	NEW YORK THE PARTY OF THE PARTY	
23	6 25 57.99 2 49.11	+23 40 51.3 o 57.3	1.878 367	8 23.8	
24	0 28 47.10	23 39 54.0	1.873 247 5 164	8 22.7	
25	6 31 35.79	23 38 46.0 1 18.7	1.808 083	8 21.5	
26	6 34 24.05 2 47.82	23 37 27.3	1.802 870	8 20.4	
27	0 37 11.87	23 35 58.0 I 39.9	1.857 024	8 19.2	
28	6 39 59.24 2 46.92	23 34 18.1 1\50.2	1.852 328 5 339	8 18.1	
29	6 42 46.16	+23 32 27.9	1.846 989 5 384	8 16.9	
30	0 45 32.02	23 30 27.5	1.841 005	8 15.8	
31	0 48 18.00	23 28 16.8	1.830 170	8 14,6	
Sept. 1	0 51 4.11	23 25 50.1	1.030 702	8 13.4	
2	0 53 49.14	23 23 25.4	1.025 103	8 12.2	
3	6 56 33.67	+23 20 44.9	1.819 619	8 11.0	

O Section Laboratory				(ALL 1872)
		Oh Weltzeit		Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	mination in Greenwich
1947	h m s			h m
Sept. 3	6 56 33.67 m s	+23 20 44.9	1.819 619	8 11.0
4	6 50 17.70 2 44.03	23 17 54 7	1.814 008 5 011	8 9.8
5	7 2 1.22 2 43.52	23 14 54.0	1.808 352 5 050	8 8,6
6	7 4 44.23	22 11 45 6 3 9.3	1.802 648 5 704	8 7.4
7	7 7 26 70 2 42.47	23 8 27.0	1.796 898 5 750	8 6.1
8	7 10 8.64 2 41.94	23 4 59.1 3 27.9 3 37.0	1.791 100 5 798 5 846	8 4.9
9	7 12 50.03	+23 1 22.1	1.785 254 5 894	8 3.6
10	7 15 30.86 2 40.83	22 57 36.2 3 45.9 3 54.8	1.779 360 5.942	8 2.4
11	7 18 11.11 2 40.25	22 53 41.4 4 3.5	1.773 418	8 1.1
12	7 20 50.79 2 39.08	22 49 37.9 4 12.1	1.707 428	7 59.8
13	7 23 29.87	22 45 25.8	1.701 391 6 086	7 58.2
14	7 26 8.35 2 37.86	22 41 5.4 4 28.7	1.755 305 6 134	7 57.2
15	7 28 46.21	+22 36 36.7	1.749 171 6 181	7 55.9
16	7 31 23.45 2 36.61	22 31 59.9 4 44.8	1.742 990 6 227	7 54:5
17	7 34 0.06	22 27 15.1	1.736 763 6 274	7 53.2
18	7 30 30.02	22 22 22.5	1.730 489 6 320	7 51.9
19	7 39 11.33 2 34.66	22 17 22.3	1.724 169 6 266	7 50.5
20	7 41 45.99 2 34.00	22 12 14.6 5 15.1	1.717 803 6 411	7 49.2
21	7 44 10.00	+22 6 59.5 5 22.2	1.711 392 6 456	7 47.8
22	7 46 53.32 2 33.33	22 1 37.3	1.704 936	7 46.4
23	7 49 25.99	.21 56 8.0	1.698.435	7 45.0
24	7 51 57.98 2 31.31	21 50 31.8	1,691 889	7 43.6
25	7 54 29.29	21 44 40.9	1.685 298 6 635	7 42.1
26	7 56 59.92 2 29.94	21 38 59.4 5 55.9	1.678 663 6 679	7 40.7
27	7 59 29.86	+21 33 3.5 6 2.1	1.671 9.84 6 724	7 39.3
28	8 1 59.10	21 27 1.4	1.665 260 6 768	7 37.8
29	8 4 27.05	21 20 53.1	1.658 492 6 812	7 36.3
30	8 6 55.49	21 14 38.9 6 20.0	1.651 680 6 857	7 34.9
Okt. 1 🕅	8 9 22.62	21 8 18.9 6 25.6	1.644 823 6 901	7 33.4 7 31.9
2	8 11 49.04 2 25.71	'21 1 53.3 6 31.1	1.637 922 6 946	
3	8 14 14.7.5	+20 55 22.2 6 36.4	1.630 976	7 30.4
4	8 16 39.72	20 48 45.8 6 41.6	1.623 985 7 036	7 28.8
5	8 19 3.97	20 42 4.2 6 46.5	1.616 949 7 081	7 27.3
6	8 21 27.47	20 35 17.7 6 51.3	1.609 868 7 126	7 25.7 7 24.2
7	8 23 50.22	20 28 26.4 6 56.0	1.602 742 7 171 1.595 571 7 216	7 22.6
8	8 26 12.21 2 21.23	20 21 30.4 7 0.4	7 210	
9	8 28 33.44 2 20.44	+20 14 30.0 7 4.6	1.588 355 7 261	7 21.0
10	8 30 53.88 2 19.66	20 7 25.4 7 8.7	1.581 094 7 305	7 17.8
II	8 33 13.54 2 18.86	20 0 16.7 7 12.6	1.573 789 7 349 1.566 440 7 339	7 16.1
12	8 35 32.40 2 18.05	19 53 4.1 7 16.2	1.559 048 7 392	7 14.5
13	8 37 50.45 2 17.23	19 45 47.9 7 19.8 +19 38 28.1	1.551 613 7 435	7 12.8
14	8 40 7.68	719 30 20.1		

1			- 191-y-31	- 37 - 1 5 245
		O <sup>h</sup> Weltzeit		Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	mination in Greenwich
1947	h m s	0 / /		h m
Okt. 14	8 40 7 68 <sup>m</sup> s	+19 38 28.1	1.551 613	7 12.8
.15	8 42 24.08 2 16.40	19 31 5.1 7 23.0 7 26.1	1.544 136 7 477	7 11.2
16	8 44 39.65 2 15.57	19 23 39.0 7 29.0	1.536 618 7 518	7 9.5
17	8 40 54.37	19 10 10.0	1.529 059	7 7.8
18	8 49 8.25	19 8 38.2	1.521 400	7 6.1
19	8 51 21.28 2 12.16	19 1 3.9 7 36.6	1.513 823 7 677	7 4.3
20	8 53 33.44	+18 53 27.3	1,506 146	7 2.6
21	8 55 44.74 2 10.43	1.8 45 48.5 7 40.8	1.498 432 7 751	7 0.8
22	8 57 55.17 2 9.55	18 38 7.7	1.490 081	6 59.1
23	9 0 4.72	10 30 25.2	1.482 893	6 57.3
24	9 2 13.39	18 22 41.0	1.475 068	6 55.5
25	9 4 21.17 2 6.89	18 14 55.4 7 46.8	1.467 207 7 895	6 53.7
26	9 6 28.06	+18 7 8.6	1.459 312	6 51.8
27	9 8 34.04 2 5.08	17 59 20.7 7 47.9	1.451 381 7 965	6 50.0
28	9 10 39.12	17 51 32.0	1.443 416 7 999	6 48.1
29	9 12 43.29	17 43 42.0	1.435 417 8 033	6 46.3
30	9 14 46.53	1/ 35 52.0	1.427 384 8 066	6 44.4
31	9 16 48.85 2 1.37	17 28 2.4 7 50.2	1.419 318 8 100	6 42.5
Nov. I	9 18 50.22	+17 20 12.1	1.411 218 8 132	6 40.5
. 2	9 20 50.64	17 12 21.9 7 49.9	1.403 086 8 165	6 38.6
3	9 22 50.11	17 4 32.0	1.394 921	6 36.7
4	9 24 48.59	10 50 42.0	1.386 723 8 220	6 34.7
5	9 20 40.09	10 48 53.9	1.378 494 8 260	6 32.7
6	9 28 42.59 1 55.48	16 41 6.2 7 46.4	1.370 234 8 291	6 30.7
7	9 30 38.07	+16 33 19.8	1.361 943 8 320	6 28.7
8	9 32 32.50 1 53.39	10 25 34.7	1.353 623 8 350	6 26.6
9	9 34 25.89	10 17 51.3	1.345 273 8 277	6 24.6
10	9 36 18.21	10 10 9.8	1.330 890 8 404	6 22.5
II	9 38 9.45	10 2 30.5	1.328 492 8 429	6 20.4
12	9 39 59 59	15 54 53.5 7 34.3	1.320 063 8 453	6 18.3
13	9 41 48.62	+15 47 19.2	1.311 610 8 476	6 16.2
14	9 43 30.52	15 39 47.7	1.303 134 8 408	6 14.0
15	9 45 23.27	15 32 19.3	1.294 030 8 518	6.11.9
16	9 47 8.80	15 24 54.2	1,280 118	6 9.7
17	9 48 53.28	15 17 32.0	1.277 581	6 7.5
18	9 50 36.52 1 42.03	15 10 14.8 7 13.8	1.269 026 8 571	6 5.3
19	9 52 18.55	+15 3 1.0 7 9.6	1.260 455 8 587	6 3.0
20	9 53 59 37	14 55 51.4	1.251 868 8 602	6 0.8
21	9 55 38.95	14 48 40.3	1.243 266 8 614	5 58.5
22	9 57 17.29	14 41 45.8	1.234 652 8 627	5 56.2
23	9 58 54.36	14 34 50.3	1.226 025 8 637	5 53.8
24	10 0 30.15	+14 27 59.9	1.217 388	5 51.5

- 17 3 11 3	O <sup>h</sup> Weltzeit			
Tag	Scheinbare	Scheinbare		Obere Kul- mination
	Rektaszension	Deklination	Δ	in Greenwich
1947		. , ,		No. of Contract of
Nov. 24	h m s 10 0 30.15 m s	+14 27 59.9	1.217 388	h m 5 51.5
25	10 2 4.64	14 21 14.8 6 45.1	T 208 742	5 49.1
26	10 3 37.82 1 33.16	14 14 35 4	1.200 086	5 46.7
27	10 5 0.66	14 8 1.8 33.0	8 662 T TOT 424	5 44.3
28	10 6 40 14	14 1 24 2 6 27.5	T 182 755	5 41.9
29	10 8 9.25 1 27 71	13 55 13.1 6 14.6	1.174 080 8 675	5 39.4
30	10 9 36.96	+13 48 58.5	1.165 401	5 36.9
Dez. 1	10 11 3.24	13 42 50.7	1.156 718 8 683	5 34.4
2	10 12 28.06	13 36 50.1	1.148 033 8 686	5 31.9
3	10 13 51.40	13 30 56.9 5 53.2	1.139 347 8 685	5 29.4
4	10 15 13.22	13 25 11.4 5 45.5 5 37.5	1,130 662 8 684	5 26.8
5	10 16 33.50 1 18.70	13 19 33.9 5 29.2	1.121 978 8 679	5 24.2
6	10 17 52.20	+13 14 4.7	1.113 299	5 21.5
7	10 10 0.20	T2 8 11 T 5 20.0	1.104 625	5 18.9
8	10 20 24.73	13 3 32.5 5 x1.6	1.095 958	5 16.2
9	10 21 38.49 1 12.05	12 58 30.0 5 2.5	1.087 301 8 657	5 13.5
10	10 22 50.54	12 53 37.1 4 52.9	1.078 656 8 631	5 10.7
II	10 24 0.84 1 8.53	12 48 54.1 4 33.0	1.070 025 8 614	5 8.0
12	10 25 9.37	+12 44 21.1	1.061 411	5 5.2
13	10 26 16.08	12 20 58 5 4 22.0	1.052 815	5 2.3
14	10 27 20.94	12 35 46.7	1.044 240 8 575	4 59.5
15	10 28 23.93	12 31 45.8 4 0.9	1.035 688 8 552	4 56.6
16	10 29 25.01	12 27 56.2 3 49.6	1.027 162	4 53.6
17	10 30 24.14 0 57.15	12 24 18.1 3.38.1 3 26.2	1.018 665 8 497	4 50.7
18	10 31 21.29	+12 20 51.9	1.010 198	4 47.7
19	10 32 16.42 0 55.13	12 17 37.7 3 14.2	1.001 704	4 44.7
20	10.33 9.51 0 51.00	12 14 35.8	0.993 366	4 41.6
21	10 34 0.51 0 48.88	12 11 40.0	0.985 005	4 38.5
22	10 34 49.39 0 46.72	12 9 10.3	0.970 085	4 35.4
23	10 35 36.11 0 44.54	12 6 47.1 2 9.7	0.968 408 8 232	4 32.2
24	10 36 20.65	+12 4 37.4, <sub>1 56.2</sub>	0.960 176 8 184	4 29.0
25	10 37 2.95	12 2 41.2	0.951 992 8 134	4 25.8
26	10 37 42.98	12 0 58.9 1 28.1	0.943 858 8 o81	4 22.5
27	10 38 20.71 0 37.73	11 59 30.8	0.935-777 8 026	4 19.2
28	10 38 56.08 0 32.97	11 58 17.1	0.927 751	4 15.9
29	10 39 29.05 0 30.53	11 57 18.1 0 44.1	0.919 783 7 908	4 12.5
30	10 39 59.58	+11 56 34.0 a 28.8	0.911 875	4 9.0
31	10 40 27 62	11 56 5.2	0.904 031	4 5.5
32	10 40 53.13	+11 55 \$1.9	0.896 252 779	4 2.0

561		O <sup>h</sup> Weltzeit		Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ.	mination in Greenwich
1947	h m s			h · m
Jan. o	15 12 3.70 s	—16 50 18.Q	6.023 476	8 35.6
I I	15 12 46.75	16 53 4.9 2 46.0	6.011 087	8 32.4
2	15 13 29.47	16 55 48.8 2 43.9	5.998 546 12 541	8 29.2
3	15 14 11.86	16 58 30.6 2 39.8	5.985 859 12 833	8 26.0
4	15 14 53.89 41.68	17 I 10.4 2 37.5	5.973 026	8 22.7
5	15 15 35.57	17 3 47.9 2 35.4	5.960 050	8 19.5
6	15 16 16.90	—17 6 23.3	5,946 934	8 16.2
7	15 16 57.86 40.58	17 . 8 56,6 2 33.3	5.933 679	8 13.0
8	15 17 38.44 40.21	17 11 27.7 2 28.9	5.920 289 13 524	8 9.7
9	15 18 18.05	17 13 56.6	5.900 705	8 6.4
10	15 10 50.40	17 16 23.4	5.893 109	8 3.2
II	15 19 37.89 39.02	17 18 48.1	5.879 324 13 911	7 59.9
.12	15 20 16.91 38.61	-17 21 10.5 <sub>2 20.2</sub>	5.865 413	7 56.6
13	15 20 55.52 38.19	17 23 30.7 2 18.0	5.851 377 14 159	7 53.3
14	15 21 33.71 37.76	17 25 48.7	5.837 278 14 276	7 50.0
15	15 22 11.47	17 28 4.5	5.822 942	7 46.7
16	15 22 48.80	17 30 18.0	5.808 548	7 43.4
17	15 23 25.69 36.43	17 32 29.3 2 8.9	5.794 042	7 40.1
18	15 24 2.12	—17 34 38.2 <sub>2 6.7</sub>	5.779 425	7 36.7
19	15 24 38.09 35.50	17 36 44.9	5.764 701	7 33.4
20	15 25 13.59	17 38 49.3	5.749 873	7 30.1
21	15 25 40.01	17 40 51.4	5.734 944 15 026	7 26.7
22	15 20 23.15	17 42 51.2	5.719 918	7 23.3
23	15 26 57.19	17 44 48.6	5.704 799 15 211	7 20.0
24	15 27 30.73	-17 46 43.7 1 52.7	5.689 588	7 16.6
25	15 28 3.70	17 48 30.4	5.074 291	7 13.2
26	15 28 30.28	17 50 20.8	5.058 911	7 9.8
27	15 29 8.20	17 52 14.8	5.043 453	7 6.4
28	15 29 39.72 30.91	17 54 0.4	5.627 918	7 3.0
29	15 30 10.63	17 55 43.6	5.612 312	6 59.6
30	15 30 41.00	-17 57 24.5 <sub>1 38.4</sub>	5.596 637	6 56.1
31	15 31 10.81	17 59 2.9	5.580 898	6 52.7
Febr. 1	15 31 40.00	18 0 39.0	5.505 099	6 49.3
2	15 32 8.74 28.11	18 2 12.7	5.549 243	6 45.8
3	15 32 36.85	18 3 44.0 1 28.9 18 5 12.9	5.533 333	6 42.3
4	15 33 4.38 26.94	I 26.5	5.517 374 16 007	6 38.9
5	15 33 31.32 26.35	—18 6 39.4 <sub>1 24.1</sub>	5.501 367 16 050	6 35.4
6	15 33 57.07	18 8 3.5	5.485 317	6 31.9
7	15 34 23.42	18 9 25.2	5.469 228 16 126	6 28.3
8	15 34 48.50	18 10 44.5 r 16.8	5.453 102 16 159	6 24.8
9	15 35 13.08 23.90 15 35 36.98	18 12 1.3 1 14.5 —18 13 15.8	5.436 943 16 188	6 21.3
	1 3 33 30.90	1 -10 13 15.0	5.420 755	6 17.8

		Jupiter 13 11		
		Oh Weltzeit		Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination <b>Bi</b>	Jag.	mination in Greenwich
1947	h m s			h m
Febr. 10	15 35 36.08 s	—18 13 15.8	5.420 755	6 17.8
11	15 36 0.25	18 14 27.8 72.0 69.6	5.404 541 16 236	6 14.2
12	15 36 22.88 21.99	18 15 37.4	5.388 305 16 253	6 10.7
13	15 36 44.87	18 16 44.5	5.372 052	6. 7.1
14	15 37 0.20	18 17 49.2	5.355 786 16 277	6 3.5
15	15 37 26.86	18 18 51.4 59.7	5.339 509 16 282	5 59.9
16	15 37 46.86	—18,19 51.1 57-3	5.323 227 16 282	5 56.3
17	15 38 0.18	18 20 48.4	5.306 945	5 52.7
18	15 38 24.82	18 21 43.2	5,290 665	5 49.1
19	15 38 42.77	18 22 35.4	5.274 393 16 250	5 45.4
20	15 39 0.03	18 23 25.1	5.258 134 16 242	5 41.8
21	15 39 16.58	18 24 12.4	5.241 892 16 221	5 38.1
22	15 39 32.42	—18 24 57.2 <sub>42.2</sub>	5.225 671 16 195	5 34.5
23	15 39 47.55	18 25 39.4	5.209 476	5 30.8
24	15 40 1.96	18 20 19 1	5.193 313 16 128	5 27.1
25	15 40 15.64	18 20 50.3	5.177 185 16 087	5 23.4
26	15,40 28,60	18 27 31.0	5.161 098 16 043	5 19.7
27	15 40 40.82	18 28 3.2 29.7	5.145 055 15 993	5 15.9
28	15 40 52.31	—18 28 32.9 <sub>27.3</sub>	5,129 062	5 12.2
März 1	15 41 3.06	18 29 0.2 24.7	5.113 123 15 880	5 8.4
2.	15 41 13.07 g.26	18 29 24.9	5.097 243' 15 818 5.081 425	5 4.7 5 0.9
3	15 41 22.33 8.52	18 29 47.1 18 30 6.8	5.065 676	5 0.9 4 57.1
4	15 41 30.85 15 41 38.61	18 30 24.0	5.049 997	4 53.3
5	7.01		15 004	4 49.5
6	15 41 45.62	—18 30 38.8, 18 30 51.1	5.034 393 5.018 869	4 45.6
7 8	15 41 51.88	18 31 0.8 9.7	5.003 429	4 41.8
	15 41 57.37 15 42 2.10 4.73	18 31 8.1 7.3	4.988 076	4 37.9
9	15 42 6.07 3.97	18 31 12.9	1 072 816 15 200	4 34.1
11	15 42 9.27	18 21 15 2 2.3	1 057 652 15 103	4 30.2
	2.42		4.942 591	4 26.3
12	15 42 11.69 1.66	—18 31 15.1 18 31 12.4	1 027 625 14 950	4 22.4
13	15 42 13.35 0.88	78 27 72 5.1	4 012 780	4 18.5
14	15 42 14.23 15 42 14.34 0.11	18 31 7.3 7.7 18 30 59.6	4 808 050	4 14.5
15	15 42 13.67	18 20 40 5	4 882 447	4 10.6
17	15 42 12.22	18 30 36.8	4.868 062 14 405	4 6.6
18	15 42 9.99	—18 30 21.7	4.854 605	4 2.7
19	15 42 6.00	18 30 12	4 840 383	3 58.7
20	15 42 3.21	18 20 44.1	4.826 301	3 54.7
21	15 41 58.66 4.55	18 20 21.5	4.812 362 13 939	3 50.7
22	7 5 47 52 22 5.33	18 28 56.5	4.798 572 13 635	3 46.6
23	15 41° 47.24	—18 28 29.0 <sup>27.5</sup>	4.784 937	3 42.6

		Oh Weltzeit	A PARTY OF THE PAR	Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	mination in Greenwich
1947	h m s			h m
März 23	15 41 47.24 6.86	—18 28 29.0 ° 29.9	4.784 937	3 42.6
24	15 41 40.38	18 27 59.1	4.771 400	3 38.6
25	15 41 32.75 8 28	18 27 20.8	4.758 149	3 34.5
26	15 41 24.37	18 20 52.1	4.745 004	3 30.4
27	15 41 15.25	18 20 15.0	4.732 033	3 26.3
28	15 41 5.37 10.62	18 25 35.5 0 41.9	4.719 239 12 611	3 22.2
29	15 40 54.75	—18 24 53.6	4.706 628	3 18.1
30	15 40 43.40	18 24 9.4 0 46.5	4.694 202	3 14.0
31	1,5 40 31.33	18 23 22.9	4.681 967	3 9.9
April 1	15 40 18.53	18 22 34.1	4.669 925	3 5.7
2	15 40 5.03	18 21 43.0	4.658 082	3 1.6
3	15 39 50.83	18 20 49.7	4.646 441	2 57.4
4	15 30 35.03	—18 10 54.2	4.635 005	2 53.2
5	15 39 20.34 16.27	18 18 56.5 57.7	4.623 778 11 015	2 49.0
6	15 39 4.07	18 17 56.6 0 59.9	4.612 763 10 797	2 44.8
7	15 38 47.14	18 16 54.5	4.601 966	2 40.6
8	15 38 29.55	18 15 50.2	4.591 389	2 36.4
9	15 38 11.30 18.89	18 14 43.9	4.581 036 10 353	2 32.2
10	15 37 52.41	—18 13 35.A	4.570 912 9 893	2 27.9
II	15 37 32.90 20.14	18 12 24.9	4.561 019 9 657	2 23.6
12	15 37 12.76	18 11 12.4	4.551 362 9 419	2 19.4
13	15 30 52.02	18 9 57.8	4.541 943	2 15.1
14	15 30 30.07	18 8 41.3	4.532 709	2 10.8
15	15 36 8.75	18 7 22.8	4.523 840 8 677	2 6.5
16	15 35 46.26	—18 6 2.4	4.515 163 8 424	2 2.2
17	15 35 23.22 23.59	18 4 40.2	4.506 739	1 57.9
18	15 34 59.63 24.11	18 3 10.1	4.498 574	1 53.6
19	15 34 35.52	18 1 50.2	4.490 669	I 49.2
20	15 34 10.90	I8 0 22.0	4.483 028	I 44.9
21	15 33 45.78	17 58 53.4	4.475 655 7 102	1 40.6
22	15 33 20.20 26.04	-17 57 22.4 <sub>1 32.5</sub>	4.468 553 6 829	1 36.2
23	15 32 54.16	17 55 49.9	4.461 724 6 552	1 31.9
24	15 32 27.68	17 54 15.9	4.455 172 6 274	I 27.5
25	15 32 0.79	17 52 40.5	4.448 898	1 23.1
26	15 31 33.49 27.67	17 51 3.0	4.442 904 5 710	1 18.7
27	15 31 5.82 28.03	17 49 25.4	4.437 194 5 426	1 14.3
28	15 30 37.79 28.37	-17 47 46.0	4.431 768 5 140	1 9.9
29	15 30 9.42	17 46 5.3 1 41.7	4.420 028	I 5.5
30	15 29 40.73	17 44 23.6	4.421 775	I I,I
Mai 1	15 29 11.74	17 42 40.7	4.417 212	0 56.7
2	15 28 42.47	17 40 50.8	4.412 939	0 52.3
3	15 28 12.94	-17 39 11.9	4.408 958	0 47.9

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		Oh Weltzeit		Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	mination in Greenwich
1947	h m s		A STATE OF STATE OF	h m
Mai 3	15 28 12.94 s	—17 39 11.9	4.408 958	0 47.9
4	15 27 43.17	17 37 26.2 45.7	4.405 270	0 43.4
5	15 27 13 18 29.99	17 35 39.6	4.401 875 3 395	0 39.0
6	15 26 42.00 30.19	17 33 52.3 47.3	4.308 775	0 34.6
7	15 26 12.61	17 32 4.3	4.395 971	0 30.1
8	15 25 42.08 30.53 30.67	17 30 15.7	4.393 464 2 507	0 25.7
9	TE 25 TT 4T	—17 28 26.4	4,391 256	0 21.3
10	15 24 40.61	17 26 36.7 1 49.7	4.389.345	0 16.8
11	15 24 9.72	17 24 46.7	4. 387 734	0 12.4
12	15 23 38.75	17 22 56.2	4.386 423	0 7.9
13	15 23 7.72 31.03 31.06	17 21 5.5 1 50.7 1 50.9	4.385 413	{ 0 3.5 } 23 59.0 }
14	15 22 36.66	17 19 14.6	4.384 703	23 54.6
15	15 22 5.58	-17 17 23.6	1.384.204	23 50.1
16	15 21 34 51 31.07	17 15 32.6 1 51.0	4.384 188 706	23 45.7
17	15 21 3.47	17 13 41.7 1 50.9 1 50.8	4.384 382 496	23 41.3
18	15 20 32.49 30.98	17 11 50.9	4. 384 878	23 36.8
19	15 20 1.58 30.81	17 10 0.3	4.385 070	23 32.4
20	15 19 30.77 30.69	17 8 10.0 1 49.8	4. 386 774 1 398	23 27.9
21	15 19 0.08	—17 6 20.2 2 1 49.4	4. 388 172 r 698	23 23.5
22	15 18 29.53 30.55	17 4 30.8 1 48.8	4. 389 870	23 19.0
23	15 17 59.14	17 2 42.0	4.391 805	23 14.6
24	15 17 28.94	17 9 53.9	4.394 157 2 587	23 10.2
25	15 16 58.95	10 59 0.0	4.396 744 2 881	23 5.8
26	15 16 29.19 29.51	16 57 20.1	4.399 625	23 1.3
. 27	15 15 59.68	—16 55 34.5 <sub>1 44.5</sub>	4.402 796	22 56.9
28	15 15 30.44	10 53 50.0	4.406 256	22 52.5
29	15 15 1.48 28.66	10 52 0.0	4.410 002	22 48.1
30	15 14 32.82	16 50 24.3	4.414 033 4 315	22 43.7
31	15 14 4.49	16 48 43.3 1 39.8	4.418 348 4.422 941	22 39.3 22 34.9
Juni 1	15 13 36.50 27.63	16 47 3.5 1 38.3	4 072	14
2	15 13 8.87	→16 45 25.2 <sub>1 36.9</sub>	4.427 813 5 146	22 30.5
3	15 12 41.62	16 43 48.3	4.432 959 5 420	22 26,2
4	15 12 14.75 26.46	10 42 12.9	4.438 379 5 690	22 21.8
5	15 11 48.29	16 40 39. I 1 32.2	4.444 069 5 959	22 17.4 22 13.1
6	15 11 22.25	16 39 6.9	4.450 028 6 223 4.456 251 6 487	22 8.7
7	15 10 56.65	16 37 36.5 1 28.6	0 40/	1-01-01-01-01
8	15 10 31.50 24.68	-16 36 7.9 I 26.8	4.462 738 6 747	22 4.4
9	15 10 0.82	16 34 41.1 16 32 16 3	4.469 485 7 005	21 55.7
10	15 9 42.02	16 33 16.3	4.483 750 7 260	21 51.4
11	15 9 18.91	16 31 53.4 1 20.8 16 30 32.6 18.6	1 101 261 7 511	21 47.1
12	15 8 55.72 22.67 15 8 33.05	-16 29 14.0 r 18.6	4.499 021 7 760	21 42.8
13	1 15 0 33.05			

		O <sup>h</sup> Weltzeit		Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	mination in Greenwich
1947	h m s			h m
Juni 13	15 8 33.05 5	-16 20 14 0	4.499 021	21 42.8
14	15 8 10.92	16 27 57.4	4 507 020	21 38.5
15	15 7 40.34	16 26 43.1 74.3	4.515 278 0 249	21 34.2
16	15 7 28.32	16 25 31.2	4.523 760	21 30.0
17	15 7 7.87 20.45	16 24 21.6 69.6 67.2	4.532 494 8 960	21 25.7
18	15 6 48.02	16 23 14.4 64.7	4. 541 454 9 187	21 21.4
19	15 6 28.77	-16 22 Q.7	4,550 641	21 17.2
20	15 6 10.13	16 21 7.5	4.560 054 9 413	21 13.0
21	15 5 52.12	16 20 7.9	4.560 680 9 °35	21 8.8
22	15 5 34.74 16.74	16 19 11.0	4.579 540 9 851	21 4.5
23	15 5 18.00 16.09	16 18 16.7 54.3 51.6	4.589 602	21 0.3
24	15 5 1.91	16 17 25.1 48.8	4.599 873 10 475	20 56.2
25	15 4 46.48	-16 16 36.3	4.610 348	20 52.0
26	15 4 31.72 14.76	16 15 50.3	4.621 021	20 47.8
27	15 4 17.62	16 15 7.1	4.631 890	20 43.6
28	15 4 4.20	10 14 20.7	4.642 949 11 246	20 39.5
29	15 3 51.47	10 13 49.1	4.654 195	20 35.4
30	15 3 39.42	16 13 14.5 31.8	4.665 624 11 606	20 31.2
Juli 1	15 3 28.06	-16 12 42.7 <sub>28.8</sub>	4.677 230 11 781	20 27.1
2	15 3 17.39 0.06	16 12 13.9	4.689 011	20 23.0
3	15 3 7.43	10 11 48.0	4.700 962	20 18.9
4	15 2 58.17 8.56	16 11 25.1	4.713 079	20 14.9
5	15 2 49.61 7.85	16 11 5.1 17.0	4.725 359	20 10.8
	15 2 41.76 7.14	16 10 48.1	4.737 796	20 6.8
7	15 2 34.62 6.42	16 10 34.1 <sub>11.0</sub>	4.750 388	20 2.7
8	15 2 28.20	16: 10 23.1	4.703 129	19 58.7
9	15 2 22.49	16 10 15.1	4.776 018 13 029	19 54.7
10	15 2 17.50 4.27	16 10 10,1 16 10 8.1	4.789 047	19 50.7
II 12	15 2 13.23 15 2 9.69 3.54	16 10 8.1 — 16 10 9.2	4.802 216 4.815 518	19 46.7 19 42.7
	2.82	4.2	13 432	
13	15 2 6.87	-16 10 13.4 7.2	4.828 950	19 38.7
14	15 2 4.77 r.37	10 10 20.6	4.842 509	19 34.8
15	15 2 3,40 0.63	16 10 30.8	4,856 189 13 796	19 30.8
16	15 2 2.77 0.09	16 10 44.1 16.3	4.869 985 13 910 4.883 895	19 26.9
1 <i>7</i> 18	15 2 2.86 0.82 15 2 3.68	16 11 0.4 16 11 19.8	4.897 913	19 23.0 19 19.1
	1.55	22.4	14 120	
19 `	15 2 5.23	16 11 42.2 25.5	4.912 033	19 15.2
20	15 2 7.52	16 12 7.7 28.6 16 12 36.3	4.926 253	19 11.3
21	15 2 10.53 15 2 14.27	16 13 7.8 31.5	4.940 567 14 402 4.954 969	19 7.4
23	15 2 14.27 15 2 18.73 4.46	16 13 42.4	4.969 458	19 3.6
24	15 2 23.92 5.19	—16 14 20.0 37.6	4.984 026	18 55.9
	3.9		7.9.7	10 00.9

0		Oh Weltzeit		
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	Obere Kul- mination in Greenwich
1947	h m s			h m
Juli 24	15 2 23.92 s	—16 14 20.0 0 40.5	4.984 026	18 55.9
25	15 2 29.82 5.90 6.62	16 15 0.5	4.998 668	18 52.0
26	15 2 36.44	10 15 43.9	5.013 384	18 48.2
27	15 2 43.77	16 16 30.2	5.028 100	18 44.4
28	15 2 51.81	16 17 19.4	5.043 011	18 40.6
29	15 3 0.55 9.45	16 18 11.5 0 54.9	5.057 915 14 960	18 36.9
30	15 3 10.00	-16 to 64	5.072 875	18 33.1
31	15 3 20.14	16 20 4.2 1 0.5	5.087 886 15 058	18 29.3
Aug. 1	15 3 30.97	16 21 4.7	5.102 944	18 25.6
2	15 3 42.49	16 22 8.0	5.118 046	18 21.9
3	15 3 54.70	16 23 14.0	5.133 188	18 18.1
4	15 4 7.59	16 24 22.6	5.148 366 15 210	18 14.4
5	15 4 21.16	—16 25 34 O	5.163 576	18 10.7
6	15 4 35.40	16 26 48.0 1 16.6	5.178 814 15 238	18 7.0
7	15 4 50.31 15.58	16 28 4.6	5.194 079	18 3.4
8.	15 5 5.89 16.24	16 29 23.8	5.209 364 15 305	17 59.7
9	15 5 22.13 16.90	16 30 45.6	5.224 669	1.7 56.0
10	15 5 39.03 17.56	16 32 9.9 1 26.8	5.239 987 15 328	17 52.4
II	15 5 56.59 18.21	-16 33 36.7 x 29.3	5.255 315 15 336	17 48.8
12	15 6 14.80 18.86	16 35 6.0	5.270 051	17 45.2
13	15 6 33.66	16 36 37.7	5.285 989 15 338	17 41.6
14	15 6 53:16 20.14	16 38 11.8	5.301 327	17 38.0
15	15 7 13.30 20.78	16 39 48.4	5.310 000	17 34.4
16	15 7 34.08	16 41 27.2	5.331 983 15 310	17 30.8
17	15 7 55.49 22.03	—16 43 8.4 <sub>1 43.5</sub>	5.347 293 15 294	17 27.2
18	15 8 17.52	16 44 51.9	5.362 587	17 23.6
19	15 8 40.17	16 46 37.6	5.377 858 15 246	17 20.1
20	15 9 3.44 23.88	16 48 25.5	5.393 104	17 16.6
21	15 9 27.32	10 50 15.0	5.408 322 15 185	17 13.0
22	15 9 51.80 25.07	16 52 7.8	5.423 507 15 149	17 9.5
23	15 10 16 87	—16 54 2.1 156.3	5.438 656	1,7 6.0
24	15 10 42.54 26.25	16 55 58.4 7 58 2	5.453 765	17 2.5
25	15 11 8.79 26.83	10 57 50.7	5.468 832	16 59.0
26	15 11 35.02	16 59 56.8	5.483 853 14 972	16 55.5
27	15 12 3.02	17 1 58.9 2 3.9	5.498 825	16 52.1
28	15 12 30.98	17 4 2.8 2 5.8	5.513 745 14 864	16 48.6
29	15 12 50 50	—17 6 8.6 <sub>2 7.6</sub>	5.528 609 14 806	16 45.1
30	15 13 28 58 29.00	17 8 10.2	5.543 415	16 41.7
31	15 13 58.21	17 10 25.5	5.558 101	16 38.3
Sept. 1	15 14 28.38 30.17	17 12 36.4 2 12.6	5.572 842	16 34.9
2	15 14 59.08	17 14 49.0	5.587 457	16 31.4 16 28.0
3	15 15 30.32	<b>─17 17 3.3</b>	5.602 002	10 20.0

		Oh Weltzeit		Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	mination in Greenwich
1947	h m s		A CONTRACTOR OF THE PARTY OF TH	h m
Sept. 3	15 15 30 32 S	-17 17 33	5,602 002	16 28.0
4	15 16 2 00 31.77	17 10 10 1	5.616 474 14 472	16 24.6
5	TE T6 24 28 32.29	17 21 36 4 2 17.3	5.630 872 14 398	16 21.2
6	75 77 7 78 32.00	17 23 55.2	5.645 101 14 319	16 17.8
7	15 17 40.50 33.83	17 26 15.6 2 20.4	5.659 430 14 239	16 14.5
8	15 18 14.33 34.33	17 28 37.3 2 23.1	5.673 585 14 155	16 11.1
9	15 18 48 66	—I7 3I 0.4	5.687 654	16 7.7
10	15 10 23 40 34.83	17 33 24 0	5 701 632 13 978	16 4.4
II	15 19 58.81 35.32	17 35 50 7	5.715 517	16 1.1
12	15 20 34.63 35.82	17 38 17.7 2 28.3	5.720 307 13 790	15 57.7
13	15 21 10 92 36.77	17 40 46.0 2 29.5	5.742 998 13 588	15 54.4
14	15 21 47.69 37.25	17 43 15.5 2 30.7	5.756 586 13 482	15 51.1
15	TE 22 24 04	-17 45 46 2	5,770 068	15 47.8
16	15 23 2.65 37.71	17 48 180 2 31.6	5 783 442 13 374	15 44.5
17	15 23 40.83 38.18 38.62	17 50 50.8 2 32.8	5.796 704	15 41.2
18	15 24 19.45 39.08	17 53 24.7 2 33.9 2 34.8	5.809 852 13 148	15 37.9
19	15 24 58.53	17 55 59.5	5.822 882 13 030	15 34.6
20	15 25 38.04 39.95	17 58 35.3 2 36.7	5.835 793 12 789	15 31.4
21	15 26 17 00	—18 I I2.0	5 848 582	15 28.1.
22	15 26 58.37 40.80	18 3 49.5 2 37.5	5.861 246	15 24.8
23	15 27 39.17	18 6 27:8 2 39.0	5.873 782 12 536	15 21.6
24	15 28 20.39 41.63	18 9 6.8	5.886 190	15 18.3
25	15 29 2.02	18 11 40,7	5.898 400	15 15.1
26	15 29 44.05 42.43	18 14 27.2	5.910 609 12 007	15 11.9
27	15 30 26.48	—I8 I7 8.3	5 022 616	15 8.6
28	15 31 9.31 43.21	18 19 50.0 2 41.7 2 42.3	5.934 486 11 870	15 5.4
29	15 31 52.52 43.59	18 22 32.3	5.946 215 11 590	15 2.2
30	15 32 36.11 43.97	18 25 15.1	5.957 805	14 59.0
Okt. 1	15 33 20.08	18 27 58.4	5,909 250	14 55.8
2	15 34 4.43 44.71	18 30 42.1	5.980 550 11 153	14 52.6
3	15 34 49.14 45.08	—18 33 26.3	5.001 703	14 49.4
4	15 35 34.22 45.44	18 36 10.8 44.5	6.002 707 10 852	14 46.2
5	15 36 19 66 45.79	18 38 55.7 2 44.9	6.013 559 10 699	14 43.1
6	15 37 5.45 46.14	18 41 41.0 2 45.3	6.024 258	14 39.9
7	15 37 51.59 46.48	18 44 20.5	6.034 802 10 386	14 36.7
8	15 38 38.07 46.83	18 47 12.2 2 46.0	6.045 188	14 33.6
9	15 39 24.90 47.16	-18 49 58.2	6.055 414	14 30.4
10	15 40 12.06 47.49	18 52 44.3 2 46.3	6.065 478 9 900	14 27.3
11	15 40 59.55	18 55 30.6 2 46.4	0.075 378	14 24.2
12	15 41 47.30	18 58 17.0 2 46.5	0.085 110	14 21.0
13	15 42 35.50	19 1 3.5	0.094 073	14 17.9
14	15 43 23.94	—19 3 50.0	6,104 066	14 14.7

		Oh Weltzeit	Oh Weltzeit	
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	Obere Kul- mination in Greenwich
1947	h m s			h m
Okt. 14	15 43 23 04 S	-19 3 50.0	6.104 066	14 14.7
15	15 44 12 70 40.70	19 6 36.6 2 46.6	6,113 286 9 220	14 11.6
16	15 45 1.76 49.06	19 9 23.0 2 46.4	6.122 329 9 043	14 8.5
17	15 45 51.11 49.35	19 12 9.4	D.131 190 8 688	14 5.4
18	15 46 40.75 49.92	19 14 55.7	6.139 884	14 2.3
19	15 47 30.67 50.20	19 17 41.9 2 45.9	6.148 392 8 325	13 59.2
20	15 48 20 87	-10 20 27.8	6 156 717	13 56.1
21	15 49 11.34	19 23 13.5	6.164 861	13 53.0
22	15 50 2.08 50.74	10 25 50 0 45.5	6,172 820 7 959	13 49.9
23	15 50 53.07 50.99 51.25	19 28 44.1	6.180 592 7 786	13 46.8
24	15 51 44.32 51.50	19 31 28.9 2 44.5	0.188 178	13 43.8
25	15 52 35.82 51.74	19 34 13.4 2 44.0	6.195 574 7 209	13 40.7
26	15 53 27 56	10 36 57 4	6.202 783	13 37.6
27	15 54 10 54	10 30 41 1 43.7	6.209 801 7 018	13 34.5
28	15 55 11 75	19 42 24.3 2 42.7	6.216 627 6 633	13 31.5
29	15 56 4 18 52.43	19 45 7.0 2 42.3	6.223 260 6 441	13 28.4
30	15 56 56.84 52.88	19 47 49.3 2 41.6	0.229 701	13 25.4
31	15 57 49.72 53.09	19 50 30.9 2 41.1	6.235 946 6 051	13 22.3
Nov. 1	15 58 42 81	10 53 12 0	6.241 007	13 19.3
2	15 50 36.11 53.30	10 55 52 6	6.247 850 5 853 5 655	13 16.2
3	16 0 20 61 53.50	19 58 32.5 2 39.4	6.253 505	13 13.2
4	16 1 23.31 53.90	20 1 11.9 2 38.6	0.258 902	13 10.1
5	16 2 17.21 54.09	20 3 50.5	0.204 218	13 7.1
6	16 3 11.30 54.27	20 6 28.5 2 37.2	6.269 271 4 850	13 4.1
7	16 4 5 57	-20 9 5.7 <sub>2 36.6</sub>	6.274 121	13 1.0
8	16 5 0 02 34.43	20 11 42.3 2 35.7	6.278 766	12 58.0
. 9	16 5 54.64 54.62 54.79	20 14 18.0	0.283 207	12 55.0
10	16 6 49.43 54.96	20 16 53.0 2 34.x	6.287 438	12 52.0
11	16 7 44.39 55.11	20 19 27.1	6,291 462 3 814	12 48.9
12	16 8 39.50 55.26	20 22 0.4 2 32.4	6.295 276	12 45.9
13	16 0 34 76	-20 24 32,8 <sub>2 31.6</sub>	6.298 880	12 42.9
14	16 10 30 17 55.41	20 27 4.4 2 30.6	6.302 272	12 39.9
15	-6 04 57 33.34	20 29 35.0 2 29.6	0,305 451	12 36.9
16	16 12 21.38 55.67 16 12 21.38 55.80	20 32 4.6	6.308 419	12 33.9
17	16 13 17.18 55.92	20 34 33.2	0.311 172	12 30.9
18	16 14 13.10 56.02	20 37 0.9 2 26.6	6.313 713 2 326	12 27.9
19	16 15 0 12	-20 39 27.5 <sub>2 25.6</sub>	6.316 039	12 24.9
20	16 16 5 26 30.14	20 41 53.1 2 24.5	6.318 149	12 21.9
21	16 17 1.49 56.33	20 44 17.0	6.320 046	12 18.9
22	16 17 57.82 56.42	20 46 41.0	6.321 728	12 15.9
23	16 18 54.24 56.51	20 49 3.3 2 21.2	6.323 194 1 251	12 12.9
24	16 19 50.75	20 51 24.5	6.324 445	12 9.9

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		Oh Weltzeit	Obere :	
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	mination in Greenwich
1947	h m s			h m
Nov. 24	16 10 50 75 5	20 51 24.5	6.324 445	12 9.9
25	16 20 47 33 50.50	20 53 44 5	6 325 480	12 6.9
26	16 21 43.98 56.65 56.72	20 56 3.3 2 17.7	6.326 301 605	12 3.9
27	16 22 40.70	20 58 21.0 2 16.5	6.326 906	12 0.9
28	10 23 37.48	21 0 37.5	6.327 295	11 57.9
29	16 24 34.32 56.89	21 2 52.7 2 14.0	6.327 469 41	11 54.9
30	16 25 31,21 56.94	21 5 6.7 <sub>2 12.8</sub>	6.327 428	11 52.0
Dez. 1	10 20 28.15	21 7 19.5	6.327 169	11 49.0
2	16 27 25.14	21 9 31.0	6.326 696	11 46.0
3	16 28 22.16 57.05	21 11 41.2	6.326 005	11 43.0
4	16 29 19.21 57.08	21 13 50.2	6.325 097	11 40.0
, 5	16 30 16.29 57.09	21 15 57.9 2 6.4	6.323 972	11 37.0
6	16 31 13.38 57.12	21 18 4.3 <sub>2 5.1</sub>	6.322 629	11 34.0
. 7	16 32 10.50 57.12	21 20 9.4	6.321 068	11 31.0
8	10 33 7.62 57.12	21 22 13.1	6.319 290	11 28.1
9	10 34 4.74 57.12	21 24 15.5	0.317 291	11 25.1
10	16 35 1.86 57.10	21 26 16.4	6.315 076	11 22.1
11	16 35 58.96 57.09	21 28 16.0 1 58.3	6.312 641 2 653	11 19.1
12	16 36 56.05 57.06	21 30 14.3 <sub>1 56.8</sub>	6.309 988 2 870	11 16.1
13	10 37 53.11	21 32 11.1	0.307 118	11 13.1
14	16 38 50.14	21 34 0.4	6,304 031	11 10.2
15	16 39 47.13	21 30 0.4	6.300 726	11 7.2
16	, 10 40 44.08	21 37 52.9	6.297 205	11 4.2
17	16 41 40.97 56.83	21 39 43.9 <sub>1 49.6</sub>	6.293 469 3 951	11 1.2
18	16 42 37.80 56.76	21 41 33.5 x 48.2	6.289 518	10 58.2
19	16 43 34.56 56.70	21 43 21.7	6.285 352 4 379	10 55.2
20	10 44 31.20	21 45 8.3	6.280 973 4 591	10 52.2
2 I 2 2	16 45 27.87 56.53 16 46 24.40	21 46 53.5 1 43.6 21 48 37.1	6.276 382 4 802 6.271 580	10 49.2
23	16 47 20.84 56.44	21 40 37.1 1 42.2	6.266 567 5 013	10 43.2
23	56.34	21 30 19.3 1 40.7	5 222	10 43.2
24	16 48 17.18 56.23	21 52 O.O I 39.2	6.261 345	10 40.2
25	16 49 13.41	21 53 39.2	0.255 915	10 37.2
26	10 50 9.54 56.01	21 55 10.9	0.250 277	10 34.2
27	10 51 5.55	21 50 53.1	0.244 433	10 31.2
28	10 52 1.44	21 58 27.8 1 33.2	0.238 384	10 28.2
29	16 52 57.21 55.64	22 O I.O 1 31.7	6.232 131	10 25.2
30	16 53 52.85	22 I 32.7 I 30.2	6.225 674 6 660	10 22,2
31	16 54 48.35 55.30	22 3 2.9	6,219 014 6 863	10 19.2
32	16 55 43.71	22 4 31.6	6,212 151	10 16.2

		Oh Weltzeit		Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	mination in Greenwich
1947	h m s			h m
Jan. o	8 40 I.60 S	+18 56 2.7	8.22 355	2 4.4
10 10 To	8 30 45 33	18 57 12.2	8.21 576 779	2 0,2
2	8 30 28 80 10.53	18 58 22.5	8,20 826 750	I 56.0
3	8 30 11.00	18 59 33.6	8.20 103	1 51.8
4	8 38 54.93	19 0 45.6	8.19 409	1 47.6
5	8 38 37.62 17.31	19 1 58.3 1 13.4	8.18 744 637	I 43.3
6	8 38 20.07	+19 3 11.7	8.18 107 607	1 39.1
7	8 38 2.29	19 4 25.8	8.17 500	1 34.9
8	8 37 44.29	19 5 40.5 1 14.7 1 15.3	8.10 922	1 30.7
9	8 37 26.07	19 6 55.8 1 15.9	8.16 373	1 26.4
10	8 37 7.66	19 8 11.7	8.15 855	I 22.2
II	8 36 49.06 18.79	19 9 28.1 1 16.8	8.15 300 458	1 18.0
12	8 36 30.27 18.96	+19 10 44.9 1 17.3	8.14 908 428	1 13.7
13	8 36 11.31	19 12 2.2	8.14 480	I 9.5
14	8 35 52.19	19 13 19.8	8.14 083	I 5.2
15	8 35 32.92	19 14 37.8	8.13 717 335	1 1,0
16	8 35 13.50	19 15 56.0 1 18.5	8.13 382	0 56.7
17	8 34 53.96	19 17 14.5 1 18.8	8.13 078 273	0 52.4
18	8 34 34.31	+19 18 33.3 <sub>1 18.8</sub>	8.12 805	0 48.2
19	8 34 14.55	19 19 52.1	8.12 564 209	0 43.9
20/	8 33 54.69	19 21 11.1	8.12 355 178	0 39.7
21	8 33 34.75 20.00	19 22 30.2	8.12 177	0 35.4
22	8 33 14.75 20.07	19 23 49.2 1 19.0	8.12 031	0 31.2
23	8 32 54.68	19 25 8.2 1 19.0	8.11 917 82	0 22.6
24	8 32 34.57 20.14	+19 26 27.2 r 18.8	8.11 835 8.11 785	0 18.3
25	8. 32 14.43 20.16	19 27 46.0	8,11,767 -	0 14.1
26	8 31 54.27	19 29 4.7 <sub>1 18.5</sub> 19 30 23.2	8.11 781	0 9.8
27 28	8 31 34.10 20.17 8 31 13.93	19 31 41.4	8 TT 827 40	0 5.6
29	8 30 53.78	10 32 50 3	8,11 905 78	{ 0 I.3 }
90	20.12	+19 34 16.9	8,12 014	23 52.8
30	8 30 33.66 8 30 13.58	19 35 34.1 . 19.2	8.12 155	23 48.5
Febr. 1	20.03	10 26 50 0	8 12 328 1/3	23 44.2
	8 29 53.55 19.96 8 29 33.59 10.80	10 38 7 2	8.12 532	23 40.0
2	8 29 13.70 19.89	70 20 22 0	8 12 767 233	23 35.7
3 4	8 28 53 80	19 40 38.2	8.13 O34 298	23 31.4
	8 28 34.18	±10 41 52.0	8.13 332	23 27.2
5	8 28 14.58 19.60	10 43 70	8.13 661 329	23 23.0
	8 27 55.09 19.49	10 44 20 4	8.14 021	23 18.7
7 8	8 27 25 72	TO 45 33 2	8.14.411 390	23 14.4
9	8 27 16 50	10 16 15 2	8 14 832 421	23 10.2
10	8 26 57.43	+19 47 56.5	8.15 283 451	23 6.0

		O <sup>h</sup> Weltzeit		Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	mination in Greenwich
1947	h m s			h m
Febr. 10	8 26 57.43 s	+19 47 56.5	8.15 283	23 6.0
11	8 20 38.52	19 49 7.0 69.7	8.15.765	23 1.7
12	8 26 19.77 18.56	19 50 16.7 68.8	8.16.276 511 8.16.276 542	22 57.5
13	8 26 1.21 18.37	19 51 25.5 67.9	8.16 818 571	22 53.2
14	0 25 42.04 18 17	19 52 33.4 67.1	8.17 389 for	22 49,0
15	8 25 24.67	19 53 40.5 66.1	8.17 990	22 44.8
16	8 25 6.72	+19 54 46.6	8.18 620	22 40.5
17	8 24 48.99	19 55 51.7	8.19 279 688	22 36.3
18	8 24 31.49 17.26	19 56 55.8 04.1	8.19 967	22 32.1
19	8 24 14.23 17.00	19 57 58.9 63.1	8,20 083	22 27.9
20	8 23 57.23	19 59 0.9 60.9	8.21 428 745	22 23.7
21	8 23 40.50 16.47	20 0 1.8 59.8	8.22 200 Hoi	22 19.5
22	8 23 24 03	+20 I I.6	8.23 001	22 15.3
23	8 23 7 85	20 2 0.3 58.7	8.23 828	22 11.1
24	8 22 51.97	20 2 57.8 57.5	8 24 682 854	22 6.9
25	8 22 36.38 15.59	20 3 54,1 50.3	8.25 563	22 2.7
26	8 22 21.11	20 4 49.2 55.1	8.26 470	21 58.5
27	8 22 6.15	20 5 43.1 53.9 52.6	8.27 403 933 958	21 54.3
28	8 21 51.52	+20 6 35.7	8.28 361	21 50.2
März 1	8 21 37.22	20 7 27.0 51.3.	8 20 344 903	21 46.0
2	8 21 23.26	20 8 17.0 50.0	8.30 351	21 41.9
3	8 21 9.65 13.61 13.25	20 9 5.8 48.8	8.31 383 1 032	21 37.7
4	8 20 50.40	20 9 53.2 47.4	8.32 439	21 33.6
5	8 20 43.50	20 10 39.3	8.33 517	21 29.4
6	8 20 30.97	+20 11 24.0	8,34 619	21 25.3
7	8 20 18 80 12.17	20 12 7.3 43.3	8.35 743	21 21.1
8	8 20 7.02 11.40	20 12 49.3	8.36 889	21 17.0
9	8 19 55.62	20 13 29.9	8.38 057	21 12.9
10	8 19 44.60	20 14 9.1 39.2	8.39 246	21 8.8
11	8 19 33.98	20 14 46.8 37.7 36.4	8.40 456	21 4.7
12	8 10 23 75	+20 15 23.2	8.41 687	21 0,6
13	8 10 13.03	20 15 58.1 34.9	8.42 938 1 251	20 56.5
14	8 19 4.51	20 16 31.6 33.5	8.44 208 1 270	20 52.4
15	8 18 55.51 8.59	20 17 3.7 32.1	8.45 498	20 48.4
16	8 18 46.92	20 17 34.3	8,46 807 1 309	20 44.3
17	8 18 38.75 7.74	20 18 3.4 27.6	8.48 133 1 345	20 40.2
18	8 18 31.01	+20 18 31.0	8.49 478	20 36,2
19	8 18 23.70 7.31	20 18 57.2 20.2	8.50 840 1 302	20 32,1
20	8 18 16.83	20 19 21.9 24.7	8 52 210	20 28.1
21	8 18 10.39	20 10 45.0 23.1	8.53 615	20 24,1
22	8 18 4.39	20 20 6.7	8.55 027 1 427	20 20.0
23.	8 17 58.84 5.33	+20 20 26.9	8.56 454	20 16.0

		Oh Weltzeit		Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ,	mination in Greenwich
1947	h m s			h m
März 23	8 17 58.84 s	+20 20 26.9	8.56 454 x 442	20 16.0
24	8 17 53.73	20 20 45.6	8.57 896	20 12.0
25	8 17 49.07	20 21 2.8	8.59 352	20 8,0
26	8 17 44.86	20 21 18.4	8.00 823	20 4.0
27	8 17 41.10	20 21 32.5	8.62 307 1 404	20 0.0
28	8 17 37.80 2.84	20 21 45.0	8.63 804 1 509	19 56.1
29	8 17 34.96	+20 21 56.1	8.65 313	19 52.1
30	8 17 32.57	20 22 5.0 8.T	8,00 834	19 48.1
31	8 17 30.63	20 22 13.7	8,08 300	19 44.1
April 1	8 17 29.15	20 22 20,2	8.09 909	19 40.2
2	8 17 28.13	20 22 25.1	8.71 403	19 36.3
3	8 17 27.56 0.11	20 22 28.6	8.73 026 1 573	19 32.3
4	8 17 27.45	+20 22 30.6	8.74 599 <sub>1 582</sub>	19 28.4
5	8 17 27.79 0.34	20 22 31.0 0.4	8.76 181	19 24.5
6	8 17 28.58 1.25	20 22 30.0	8.77 771	19 20.6
7	8 17 29.83	20 22 27.4	8.79 309	19 16.7
8	8 17 31.54 2.45	20 22 23.3 5.5	8.80 975	19 12.8
9	8 17 33.69 2.61	20 22 17.8 7.1	8.82 588	19 8.9
10	8 17 36.30	+20 22 10.7	8.84 208 I 626	19 5.0
11	8 17 39.36 3.00	20 22 2,I	8.85 834 1 632	19 1.1
12	8 17 42 87 3.51	20 21 52.1	8.87 466 1 637	18 57.2
13	8 17 46.83	20 21 40.0	8.89 103 1 642	18 53.4
14	8 17 51.24 4.41	20 21 27.6	8.90 745	18 49.5
15	8 17 56.09 5.31	20 21 13.1	8.92 392 1 650	18 45.7
16	8 18 1.40	+20 20 57.1	8.94.942	18 41.8
17	8 18 7 15 5.75	20 20 30 7	8 05 606 1 054	18 38.0
18	8 18 13 34 0.19	20 20 20.8	8.07 353	18 34.2
19	8 18 10.08	20 20 0.4	8.99 012 1 661	18 30.4
4 20	8 18 27.05 7.07	20 19 38,6	9.00 673	18 26.6
21	8 18 34.57 7.52	20 19 15.3 24.8	9.02 336	18 22.8
22	8 18 42 52	120 18 10 1	0.04.000	18 19.0
23	8 18 to ot 8.39	20 18 24 3	0 05 665	18 15.2
24	8 18 59.72 8.8r	20 17 56.7	0.07 320	18 11.4
25	8 10 8 07	20 17 27 6 29.1	9.08 993 1 663	18 7.6
26	8 10 18 64	20 16 57.1 30.5	9.10 656 1 662	18 3.9
27	8 10 28 73	20 16 25.2 33.4	9.12 318 1 660	18 . 0.1
28	10.51	120 15 51 8	0.13 078	17 56.3
29	8 19 39.24 8 19 50.16	20 15 17 0 34.0	0.15 635	17 52.6
30	8 20 1 40 11.33	20 14 40 0	0 17 200 1055	17 48.9
Mai 1	8 20 13 22 11.73	20 14 3 3	0 18 042	17 45.1
2	8 20 25 36 12.14	20 13 24 4	9.20 591	17 41.4
3	8 20 37.90	+20 12 44.1	9.22 235	17 37.7

	Oh Weltzeit			Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	mination in Greenwich
1947	h m s		ATERICA STATE	h m
Mai 3	8 20 37.90 s	+20 12 44.1	9.22 235	17 37.7
4	8 20 50.83	20 12 24	0.23 876	17 34.0
5	8 21 4.16 13.33	20 11 19.3	0.25 512	17. 30.3
6	8 21 17.87	20 10 34.9	9.27 142	17 26.6
7	8 21 31.97 14.10	20 9 49.2 0 45.7	9.28 768 1 619	17 22.9
8	8 21 46.45	20 9 2,1 0 47.1	9.30 387 1 614	17 19.2
9	8 22 1,30	+20 8 13.7	0.32 001	17 15.5
10	8 22 16.53 15.23	20 7 24.0	0.33 608	17 11.8
II	8 22 32.13	20,633.0 51.0	9.35 208	17 8.2
12	8 22 48.09	20 5 40.6	9.36 802 1 594	17 4.5
13	8 23 4.42 16.69	20 4 47.0 53.6	9.38 387 505	17 0.8
14	8 23 21.11	20 3 52.0 0 55.0	9.39 965 1 578	16 57.2
15	8 23 38.16	+20 2 55.8	0.41 534	16 53.6
16	8 23 55.56 17.40	20 1 58 2 0 57.0	9.43 095	16 49.9
17	8 24 73 30 17.74	20 0 59.4	9.44 646	16 46.3
18	8 24 31.39 18.43	19 59 59.4	9.46 188 1 542	16 42.6
19	8 24 49.82 18.77	19 58 58.0 1 2.6	9.47 720	16 39.0
20	8 25 8.59	19 57 55.4 1 3.8	9.49 242	16 35.4
21	8 25 27.69	+19 56 51.6	9.50 754	16 31.8
22	8 25 47.12	19 55 46.5 1 6.3	9.52 254 1 489	16 28.2
23	8 20 0.87	19 54 40.2	9.53 743	16 24.6
24	8 26 26.95	19 53 32.7 1 8.7	9.55 220	16 21,0
25	8 26 47.33	19 52 24.0	9.50 085	16 17.4
26	8 27 8.02 21.00	19 51 14.0	9.58 137	16 13.8
27	8 27 29.02	+19 50 2.9	9.59 577	16 10.2
28	8 27 50.31	19 48 50.6	9.61 004 1 414	16 6.7
29	'8 28 11.89 21.87	19 47 37.1	9.62 418	16 3.1
30	8 28 33.76	19 40 22.5	9.63 818	15 59.5
31	8 28 55.92 22.44	19 45 6.7	9.05 204	15 56.0
Juni 1	8 29 18.36	19 43 49.8	9.66 576 1 357	15 52.4
2	8 29 41.07	+19 42 31.8	9.67 933	15 48.9
3	8 30 4.05 23.25	19 41 12.7	9.69 277 1 344	15 45.3
4	8 30 27.30	19 39 52.5	9.70 605 1 313	15 41.8
5	8 30 50.81	19 38 31.1	9.71 918	15 38.2
6	8 31 14.58	19 37 8.7	9.73 210	15 34.7
7	8 31 38.60	19 35 45.2 1 24.6	9.74 498	15 31.2
. 8	8 32 2.87	+19 34 20.6	9.75 764 1 250	15 27.6
9	8 32 27.38 24.76	19 32 54.9 1 26.7	9.77 014	15 24.1
10	8 32 52.14	19 31 28.2	9.78 248 1 217	15 20.6
II	8 33 17.13	19 30 0.5	9.79 405	15 17.1
12	8 33 42.30	19 28 31.7	9.80 666	15 13.6
13	8 34 7.81 25.45	+19 27 1.9	9.81 849	15 10.1

	Oh Weltzeit				
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	Obere Kul- mination in Greenwich	
1947	h m s			h m	
Juni 13	8 34 7.81 s	+19 27 1.9 1 30.8	9.81 849	15 10.1	
14	8 34 33.49 25.90	19 25 31.1 1 31.8	9.83 015	15 6.6	
15	8 34 59.39 26.12	19 23 59.3	9.84 163	15 3.1	
16	8 35 25.51 26.32	19 22 20.5	9.85 293	14 59.6	
17	8 35 51.83 26.54	19 20 52.7	9.86 405	14 56.1	
18	8 36 18.37 26.74	19 19 17.9 1 35.7	9.87 498 1 075	14 52.6	
19	8 36 45.11 26.93	+10 17 42 2	9.88 573	14 49.1	
20	8 37 12.04 27.12	19 16 5.5 1 36.7	9.89 629 r 036	14 45.6	
21	8 37 39.16 27.32	19 14 27.9 1 38.6	9.90 665	14 42.1	
22	8 38 6.48	19 12 49.3	9.91 682	14 38.6	
23	8 38 33.97 27.67	19 11 9.8	9.92 680	14 35.2	
24	8 39 1.64 27.85	19 9 29.5	9.93 658 958	14 31.7	
25	8 20 20 40	1 +10 7 48.2	9.94 616	14 28.2	
26	8 20 57 50	10 6 6.1 42.1	0 05 553 937	14 24.8	
27	8 40 25 67	19 4 23.2	0 06 471	14 21.3	
28	8 40 54.00 <sub>28.48</sub>	19 2 39.3	9.97 368 876	14 17.9	
29	8 41 22.48 28.63	10 0 54.7	9.98 244 856	14 14.4	
30	8 41 51.11 28.78	18 59 9.3 1 46.3	9.99 100	14 10.9	
Juli 1	8 42 10 80	+18 57 23 0	0.00.035	14 7.5	
2	8 42 48 8T	18 55 35 0 47.1	10.00 740	14 4.0	
3	8 43 17.86 <sub>29.19</sub>	18 53 48 1 47.0	10.01 542 793 772	14 0.6	
4	8 43 47 05	18 51 50.5	10.02 314 750	13 57.1	
5	8 44 16.36 29.44	18 50 10.1 1 49.4 1 50.1	10.03 004	13 53.7	
6	8 44 45.80 29.56	18 48 20.0 1 50.8	10.03 793 707	13 50.2	
7	8 45 75 26	+18 46 20.2	10.04 500	13 46.8	
8	8 45 45 03	18 44 37 7	10.05 186	13 43.4	
9	8 46 14 82	18 42 45 5	10.05 840	13 39.9	
10	8 46 44 72	18 40 52.5	10.06 491	13 36.5	
11	8 47 14 72	18 38 58 0	10.07 110 597	13 33.1	
12	8 47 44 82	18 37 4.7 1 55.0	10.07 707 575	13 29.6	
	8 48 15.01	LI8 25 07	10.08 282	13 26.2	
13	8 48 45.30 30.29	TR 22 TA T	10 08 834 552	13 22.8	
15	8 49 15.68	1 70 07 77 0	10.00 363 529	13 19.3	
16	8 49 46.14	18 20 21.1	10 00 870	13 15.9	
17	9 70 76 68 30.34	18 27 23 7	10.10 353 460	13 12.5	
18	8 50 47 20 30.01	18 25 25.8 1 58.6	10.10 813	13 9.1	
	30.00	±18 23 27.2	10.11 250	13 5.6	
19	8 51 17.97 30.75	18 21 28.1	10.11 663 413	13 2.2	
20	8 51 48.72 30.80 8 52 19.52 26	18 10 28 5	10 12 053	12 58.8	
2I 22	8 52 50.38 30.86	18 17 28.4	10.12 419	12 55.4	
23	8 52 21 20 30.91	78 15 27.8	10.12 762 343	12 52.0	
23	8 53 52.24	+18 13 26.7	10.13 082	12 48.5	

		Oh Weltzeit		Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	mination in Greenwich
1947	h m s	6 A A		h m
Juli 24	8 53 52.24 s	+18 13 26.7	10.13 082	h m 12 48.5
25	8 54 23.24 31.00	18 11 25.2	10.13 377	12 45.1
26	8 54 54.27 31.03	18 9 23.2	10.13 649	12 41.7
27	8 55 25.33	18 7 20 8 2 2.4	10.13 898 249	12 38.3
28	8 55 56.42	18 5 18:0 2 2.8	10,14 123	12 34.9
' 29	8 56 27.54 31.12	18 3 14.8 <sup>2 3.2</sup>	10.14 324	12 31.5
	31.13	2 3.6	177	
30	8 56 58.67	+18 I II.2	10.14 501	12 28.0
31	8 57 29.82 31.16	17 59 7.3 2 4.2	10.14 654	12 24.6
Aug. 1	8 58 0.98 31.18	17 57 3.1 2 4.6	10.14 784	12 21.2
2	8 58 32.16 31.18	17 54 58.5	10.14 890 82	12 17.8
3	8 59 3.34 <sub>31.18</sub>	17 52 53.0	10.14 972	12 14.4
4	8 59 34.52	17 50 48.5 2 5.4	10.15 031 34	12 11.0
5	9 0 5.69	+17 18 13 1	10,15 065	12 7.5
6	9 0 36.85	17 46 37.5	10.15 076 -11	12 4.1
7	o 1 8.01 31.10	17 44 31.6 2 5.9	10.15 063	12 0.7.
8	9 1 39.16 31.15	17 42 25.5	10.15 025	11 57.3
9	9 2 10.28 31.12	17 40 19.2	10.14 964	11 53.9
10	9 2 41.38 31.10	17 38 12.7	10.14 879	11 50.5
11	31.00	+17.36 6.0	10 14 770	11 A7 T
12	31.05	2 0.8	10.14 770	11 47.1
13	9 3 43.51 9 4 14.52	17 33 59.2 17 31 52.3	10.14 479	11 40.2
14	9 4 45.49 30.97	17 29 45.3	10.14 298	11 36.8
15	9 5 16.42 30.93	17 27 38.2 27.1	10.14 093	11 33.4
16	30.00	17 25 31.0	10.13 863	11 30.0
	30.02	2 7.2	254	WA STATE
17	9 6 18.12	+17 23 23.8	10.13 609	11 26.5
18	9 6 48.88	17 21 10.0	10.13 332	11 23.1
19	9 7 19.58	17 19 9.4-27.2	10,13 030	11 19.7
20	9 7 50.22	17 17 2.2	10.12 705	11 16.3
21	9 8 20.78	17 14 55.0	10.12 350	11 12.9
22	9 8 51.26 30.41	17 12 48.0	10.11 983 396	11 9.4
23	9 9 21.67	+17 10 41.1	10 11 587	11 6.0
24	9 9 51.99	17 8 34.3	10.11 167 420	11 2.6
25	9 10 22.22	17 6 27 6 20.7	10.10 723 444	10 59.1
26	9 10 52.35 30.13	17 4 21.1	10.10 257	10 55.7
27	Q II 22.30	17 2 14 8 2 0.3	10.09 767	10 52.3
28	O II 52.33	17 0 8.7	10.09 255 512	10 48.8
29	9 12 22,16	+16 58 2.8	10.08 719	10 45.4
30	20.73	16 55 57.2	10.08 160 559	10 43.4
31	20.01	16 53 51.8 2 5.4	501	10 38.5
Sept.	29.50	16 51 46.7	10.07 579 604	10 35.1
Sept. 1	29.37	16 49 42.0	10.06 348	10 35.1
	20.25	+16 47 37.6 2 4.4	10.05 699	10 31.0
3	9 14 49.02	1 4/ 3/.0	1 10,05 099	10 20,2

	Oh Weltzeit				
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	Obere Kul- mination in Greenwich	
1947	h m s			h m	
Sept. 3	9 14 49.62 S	+16 47 37.6	10.05 699	10 28,2	
, 4	0 15 18 75 29.13	16 45 33.6	10.05 028	10 24.7	
5	9 15 47.74 28.86	16 43 29.9	10.04.334	10 21.3	
6	9 16 16.60 28.72	16 41 26.6 2 3.3	10.03 618 716	10 17.8	
7	9 16 45.32 28.57	16 39 23.8	10.02 880 760	10 14,4	
8	9 17 13.89 28.43	16 37 21.4 2 1.9	10.02 120 781	10 10,9	
9	0 17 42 22	+16 35 19.5	10.01 339	10 7.4	
10	9 18 10.59	16 33 18.1	10.00 535 826	10 4.0	
II	0 18 38.71	16 31 17.2 2 0.9	9.99 709	10 0.5	
12	9 19 6.66 27.95	16 29 16.9	9.98 862	9 57.0	
13	9 19 34.45 27.61	16 27 17.1 1 59.8 1 59.2	9.97 994 889	9 53.6	
14	9 20 2,06 27.44	16 25 17.9 1 58.5	9.97 105	9 50.1	
15	0 20 20 50	-16 23 10.4	9.96 194	9 46.6	
16	0 20 56 76 27.26	16 21 21.6 1 37.0	9.95 263	9 43.1	
17.	0 21 23 83 27.07	16 10 24 4 57.2	9.94 311	9 39.6	
18	9 21 50.70	16 17 27.9	9.93 339 993	9 36.2	
19	9 22 17.39	16 15 32.2 55.7	9.92 346	9 32.7	
20	9 22 43.87 26.48	16 13 37.2 1 55.0 1 54.2	9.91 334 1 032	9 29.2	
21	9 23 10.15 26.07	+16 11 43.0	9.90 302	9 25.7	
22	9 23 36.22 25.86	16 9 49.7	9.89 250	9 22.2	
23	9 24 2.08 25.65	16 7 57.3	9.88 180	9 18.7	
24	9 24 27.73 25.43	10 0 5.0	9.87 090	9 15.2	
25	9 24 53.16	16 4 14.9	9.85 981	9 11.6	
26	9 25 18.36	16 2 25.1 1 48.9	9.84 854	9 8.1	
27	9 25 43.33	+16 0 36.2	9.83 709 1 164	9 4.6	
28	9 26 8.07	15 58 48.4	9.82 545	9 1.1	
29	9 26 32.58	15 57 1.5	9.81 364 1 198	8 57.6	
30	9 26 56.85	15 55 15.0	9.80 166	8 54.0	
Okt. I	9 27 20.88	15 53 30.8	9.78 949	8 50.5	
2	9 27 44.66	15 51 47.0	9.77 716	8 47.0	
3	0 28 8.10	+1.5 50 4.3	9.76 466	8 43.4	
4	0 28 31.46	15 48 22.8	9.75 199 1 283	8 39.9	
5	9 28 54.47	15 46 42.4	9.73 916	8 36,3	
6	9 29 17.22	15 45 3.1 1 38.1	9.72 617	8 32.8	
7	9 29 39.70 22 21	15 43 25.0 1 36.9	9.71 302	8 29.2	
8	9 30 1.91 21.94	15 41 48.1 1 35.6	9.09 971	8 25.6	
9	0 30 23 85	+15 40 12.5	9.68 625	8 22.1	
10	0 30 45 50	15 38 38.2 1 33.0	9.67 264	8 18.5	
11	9 31 6.86 21.36	15 37 5.2	9.65 888	8 14.9	
12	9 31 27.94 20.77	15 35 33.5 <sub>1 30.3</sub>	9.04 497	8 11.3	
13	9 31 48.71 20.48	15 34 3.2 ; 29.0	9.63 092	8 7.7	
14	9 32 9.19	+15 32 34.2	9.61 674	8. 4.1	

		Oh Welt'zeit		
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	Obere Kul- mination in Greenwich
1947	h m s		Berelowaleus	h m
Okt. 14	9 32 9.19 s	+15 32 34.2	9.61 674	h m 8 4.1
15	9 32 29.36	15 31 6.7	9.60 242	8 0.5
16	9 32 49.22	15 29 40.7	9.58 797	7 56.9
17	9 33 8.77	15 28 16.1	9.57 339	7 53.3
18	9 33 28.00	15 26 53.1	9.55 869	7 49.7
19	9 33 46.91	15 25 31.5	9.54 387	7 46.1
	10.59	1 20.0	493	
20	9 34 5.50 18.25	+15 24 11.5	9.52 894	7 42.5
21	9 34 23.75	15 22 53.1	9.51 389	7 38.9
22	9 34 41 67	15 21 36.2	9.49 873	7 35.2
23	9 34 59.25	15 20 21.0	9.48 347	7 31.6
24	9 35 16.50 16.90	15 19 7.4	9.46 812	7 27.9
25	9 35 33.40 16.55	15 17 55.5 1 10.2	9.45 266	7 24.3
26	9 35 49.95 16.21	+15 16 45.3 1 8.5	9.43 711	7 20.6
27	9 36 6.16	15 15 36.8 1 6.8	9.42 148	7 16.9
28	9 36 22.01	15 14 30.0	9.40 575 1 573	7 13.3
29	9 36 37.50	15 13 25.0	9.38 995 1 588	7 9.6
30	9 36 52.64	15 12 21.8 r 1.5	9.37 407	7 5.9
31	9 37 7.41	15 11 20.3 0 59.6	9.35 812 1 595	7 2.2
Nov. I	9 37 21.81	+15 IO 2O 7	0.24.200	6 58.5
2	0 37 35 84 14.03	15 0 22 0 57.8	0 32 600	6 54.8
3	9 37 49.51	15 8 26.9	0 30 085	6 51.1
4	9 38 2.79	15 7 32.8 0 54.1	0 20 364	6 47.4
5	9 38 15.69 12.90	15 6 40.6 ° 52.2	0 27 737	6 43.7
6	9 38 28.20	15 5 50 3	0 26 105	6 40.0
	12.13	U 40.4	1 030	
7 8	9 38 40.33	+15 5 1.9 0 46.3	9.24 469 1 640	6 36,2 6 32,5
	9 38 52.06 11.73	15 4 15.6	9.22 829 1 644	
9	9 39 3.39 10.94	15 3 31.2	9.21 185 1 648	6 28.7
10	9 39 14.33	15 2 48.8 0 40.3	9.19 537 r 650	6 25.0 6 21.2
11	9 39 24.86 10.12 9 39 34.98	15 2 8.5 0 38.4 15 1 30.1	9.17 887 9.16 235	6 17.5
12	9 39 34.90 9.72	15 1 30.1 a 36.2	1 054	
13	9 39 44.70	+15 0 53.9 0 34.1	9.14 581 r 655	6 13.7
14	9 39 54.00	15 0 19.8	9.12 920	6 9.9
15	9 40 2.89	14 59 47.7	9.11 270	6 6.1
16	9 40 11.30	14 59 17.7	9.09 614	6 2.3
17	9 40 19.41	14 58 49.9	9.07 958	5 58.5
18	9 40 27.04 7.21	14 58 24.2 0 23.6	9.06 303 1 654	5 54.7
19	0 40 34 25	+14 58 0.6	0.04.640	5 50.9
20	0 40 41 03	14 57 30.2	0 02 907	5 47.I
21	9 40 47.39	14 57 20.0	0.01.347	5 43.3
22	0 40 53 31 5.92	14 57 2.0	8 00 700	5 39.4
23	9 40 58.81 5.50	14 56 48.0 14.9	8.98 057	5 35.6
24	9 41 3.88 5.07	+14 56 35.2 0 12.8	8.96 417	5 31.7
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- 7.3%	O <sup>h</sup> Weltzeit				
Т	ag	Scheinbare Rektaszension			Obere Kul- mination in Greenwich
19	47	h m s	0 / #	PROMPT SELL S	h m
Nov.	4.0	9 41 3.88 5	+14 56 35.2	8.96 417	5 31.7
1101.	25	9 41 8.52 4.64	14 56 24.7	8.94 781	5 27.9
	26	9.41 12.72	14 56 16.4	8 03 150 1031	5 24.0
	27	9 41 16.49	14 56 10.2	8.91 524	5 20.2
	28	9 41 19.83	14 56 6.3	8.89 904	5 16.3
		2.00	7. 76 . 7 1.0	8.88 290	
	29	9 41 22.73	14 56 4.5 -0.5	5.88 290 I 607	5 12.4
	30	9 41 25.20	+14 56 5.0	8.86 683	5 8.5
Dez.	1	9 41 27.23	14 56 7.7	8.85 083	5 4.6
	2	0 41 28.82	14 56 12.5	8.83 490 1 593	5 0.7
	3	0 41 20 0-	14 56 19.6 7.1	881.005 1505	4 56.8
	4	0 41 30.60	14 56 28.9	8 80 320 13/0	4 52.9
	5	0 41 30 0 - 6.27	14 56 40.4	8.78 762 1 507	4 48.9
		9 42 30.95 0.17	13.7	I 558	
	6	9 41 30.78	+14 56 54.1	8.77 204	4 45.0
	7	9 41 30.17	14 57 10.0 15.9	8.75 657 1 537	4 41.0
	8	0 41 20.11	14 57 28.2	8.74 120 1 526	4 37.I
	9	9 41 27.62	14 57 48.6	1 8.72 504	4 33/1
	10	9 41 25.68	14 58 11.1 22.5	8.71 080	4 29.2
Y'ss	II	9 41 23.31 2.82	14 58 35.8 24.7	8.69 579 1 501 1 489	4 25.2
					36 25 53
	12	9 41 20.49	+14 59 2.8 29.1	8.68 090 I 475	4 21.2
	13	9 41 17.24	14 59 31.9	8.66 615 1 462	4 17.2
	14	9 41 13.50	15 O 3.1	8.65 153 1 447	4 13.2
	15	9 41 9:44	15 0 30.5	8.63 706 1 432	4 9.2
	16	9 41 4.89 4.98	15 1 12.1	8.02 274	4 5.2
	17	9 40 59.91 5.41	15 1 49.7 39.7	8.60 857 1 400	4 1.2
	18	9 40 54.50	+15 2 29.4	8.59 457	3 57.2
	19	0 40 48 67 5.03	15 2 11.2	8 58 073	3 53.2
	20	0 40 42 42	IS 3 55.1 43.9	8.56 706	3 49.1
	21	9 40 35.76	15 4 41.0	8 rr 2r6 1 350	3 45.1
	22	9 40 28.68 7.08	15 5 28 0 47.9	8 54 024	3 41.0
		9 40 21.20 7.48	15 6 18.8 49.9	8 52 711	3 37.0
	23	9 40 21.20 7.89	51.8	1 295	
	24	9 40 13.31	+15 7 10.6	8.51 416	3 32.9
	25	0.40 5.02	15 8 4.3 53.7	8 50 141 275	3 28.8
Action 1	26	0 20 56 33	15 9 0.0 55.7	8.48 885	3 24.8
	27	9 39 47.25	15 9 57.5 57.5	8 47 650 1235	3 20.7
	28	_ 9.4/	TE TO 56 8 39.3	8 46 435	3 16.6
1		9 39 37.78 9.85	75 TT 57 O	8 45 241	3 12.5
	29	9 39 27.93 10.23	62.9	1 1/3	
	30	9 39 17.70 10.61	+15 13 0.8 64.7	8.44 068	3 8.4
	31	0.20 7.00	15 14 5.5 66.4	8.42 917	3 4-3
	32	9 38 56.11	+15 15 11.9	8.41 789	3 0.2
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	O <sup>h</sup> Weltzeit				
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ .	Obere Kul- mination in Greenwich	
1947	h m s	• • •		h m	
Jan1	5 12 15.35 s	+23 4 51.9	18.21 448	22 37.1	
+2	5 11 44.77	23 4 18.4 33.5	18.23 193 2 006	22 24.8	
5	5 11 15.08 29.69	23 3 45.5 32.1	18.25 199	22 12.5	
8	5 10 46.41	23 3 13.4 31.0	18.27 458 2 508	22 0.2	
II	5 10 18.86 26.30	23 2 42.4 30.0	18.29 966	21 48.0	
14	5 9 52.56	23 2 12.4 28.6	18.32 714 2 980	21 35.7	
17	5 9 27.59	+23 I 43.8	18.35 694	21 23.5	
20	5 9 4.05 23.54	23 1 16.5 27.3	18.38 897 3 203	21 11.4	
23	5 8 42.06 21.99	23 0 50.9	18.42 313 3 416	20 59,2	
26	5 8 21.69 20.37 18.66	23 O 27.1 21.9	18.45 931 3 808	20 47.1	
29	5 8 3.03 16.89	23 0 5,2 20.0	18.49 739 3 984	20 35,0	
Febr. 1	5 7 46.14	22 59 45.2	18.53 723 4 147	20 22.9	
4	5 7 31.09	+22 59 27.6	18.57 870	20 10.9	
7	5 7 17.93	22 50 12.2	18.62 168 4 298	19 58.9	
10	5 7 6.69 11.24	22 58 59.0	18.66 608 4 440	19 46.9	
13	5 6 57.42 9.27	22 58 48.3 8.3	18.71 173 4 565	19 35.0	
16	5 6 50.15 7.27	22 58 40.0	18.75 851 4 678	19 23.1	
19	5 6 44.94 5.21	22 58 34.3 3.0	18.80 629 4 778	19 11.2	
22	5 6 41.80	+22 58 31.3	18.85 494	18 59.3	
25	5 6 40.75 1.05	22 58 31.0 -0.3	18,90 430 4 930	18 47.5	
28	5 6 41.79	22 58 33.2	18,95 420 4 990	18 35.8	
März 3	5 6 44.94 3.15	· 22 58 38,0 4.0	19.00 451	18 24.0	
6	5 6 50.16 5.22	22 58 45.5 7.5	19.05 510 5 059	18 12.3	
9	5 6 57.44 7.28	22 58 55.6	19.10 584 5 074	18 0.7	
12	5 7 6.77	+22 50 8.3	19.15 660	17 49.0	
15	5 7 18.13 11.30	22 50 23.3	19.20 724	17 37.4	
18	5 7 31.52 13.39	22 50 40 0	19.25 764 5 040	17 25.9	
21	5 7 46.88 15.30	23 O I.O 22.3	19.30 764 5 000	17 14.3	
24	5 8 4.19 17.31	23 0.23.3	19.35 714 4 950	17 2.8	
27	5 8 23.42 19.23	23 0 47.8 26.8	19.40 598 4 805	16 51.4	
30	5 8 44.52	±23 1 1/16	19.45 403	16 39.9	
April 2	5 9 7.41	23 I 43.3	10.50 117 4714	16 28.5	
5	5 9 32.06 24.05	23 2 14.0	10.54 731 4 614	16 17.1	
8	5 9 58.41	23 2 46.4	10.50 235	16 5.8	
11	5 10 26.40 27.99	23 3 20.6 34.2	19.63 618 4 383	15 54.5	
14	5 10 55.99 29.59 31.12	23 3 56.3 35.7 37.0	19.67 869 4 251	15 43.2	
17	5 11 27.11	+23 1 33 3	10.71 078	15 31.9	
20	5 11 50.71	23 5 11.8 30.5	19.75 936 3 950	15 20.7	
23	5 12 33.72	23 5 51.5 39.7	10 70 734	15 9.4	
26	5 13 Q.O5 35·33	23 6 32.3 41.6	10.83 360	14 58.2	
29	5 13 45.65 36.60	23 7 13.9	19.86 807 3 447	14 47.0	
Mai 2	5 14 23.42 37.77	+23 7 56.3	19,90 069	14 35.9	

		Oh Weltzeit		Obere Kul-
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	mination in Greenwich
1947	h m s			h m
Mai 2	5 TA 23 A2 S	+23 7 56.3	19.90 069	14 35.9
5	5 15 2.31 38.89	23 8 39.4 43.1	10.03 140 3 071	14 24.7
8	5 15 42.23	23 9 22,9 43.5	19.96 012	14 13.6
II	5 16 23.12	23 10 6.9 44.0	19.98 681 2 461	14 2.5
14 :	5 17 4.91 42.63	23 10 51.1 44.4	20.01 142	13 51.4
17	5 17 47.54 43.37	23 11 35.5 44.6	20.03 388 2 240	13 40.3
20	5 18 30.91	+23 12 20 T	20.05 412	13 29.2
23	5 19 14.94 44.62	23 13 4.7	20.07 212	13 18.1
26	5 19 59.50	23 13 49.1 44.0	20.08 783 1 339	13 7.1
29	5 20 44.08	23 14 33.1	20,10 122	12 56.0
Juni 1	5 21 30.22	23 15 10.7	20,11 228	12 45.0
.4	5 22 16.10 46.15	23 15 59.8 42.7	20.12 098	12 34.0
7	5 23 2.25 46.35	+23 16 42.5	20.12 732	12 22.9
10	5 23 48.60 46.46	23 17 24.5	20.13 130	12 11.9
13	5 24 35.06 46.51	23 18 5.8	20.13 209	12 0.9
16	5 25 21.57	23 18 46.3	20.13 208	11 49.9
19	5 26 8.04 46.35	23 19 25.9 38.8	20.12 886 561	11 38.8 11 27.8
22	5 26 54.39 46.14	23 20 4.7	20.12 325 800	
25	5 27 40.53 45.85		20.11 525	11 16.8
28	5 28 20.38	23 21 19.3 35.7	20,10 490	11 5.7
Juli 1	5 29 11.80	23 21 55.0	20.09 223 1 497	10 54.7
4	5 29 50.89	23 22 29.7 33.5	20.07 726	10 43.6
7	5 30 41.40 43.95	23 23 3.2 32.4 23 23 35.6 32.2	20.04 057	10 32.0
10	5 31 25.35 43.28	31.2	2 107	
13	5 32 8.63	+23 24 6.8 30.0	20,01 890	10 10,4
16	5 32 51.18	23 24 36.8 28.9	19.99 506 <sup>2 595</sup>	9 59.3 9 48.2
19	5 33 32.91 40.83	23 25 5.7 27.7	19.94 110	9 37.1
22	5 34 13.74 39.84	23 25 33.4 26.5 23 25 59.9	19.91 110 3 000	9 26.0
25 28	5.34 53.58 38.80 5 35 32.38 an 69	22 26 25 2 25.3	19.87 915 3 195	9 14.8
	37.09	24.2	19.84 536	
31	5 36 10.07 36.51	+23 26 49.4 22.8	19.80 979	9 3.7 8 52.5
Aug. 3	5 36 46.58 35.27	23 27 12.2 21.9 23 27 34.1	10 77 251 3 720	8 41.2
	5 37 21.85 33.96	23 27 54.8	19.73 358 3 893	8 30.0
9	5 37 55.81 32.60 5 38 28.41	22 28 14 3 19.3	19.69 311 4 047	8 18.8
15	£ 38 50 56 31.15	23 28 32.7	19,65 115 4 190	8 7.5
	29.02	17.3	19.60 780	7 56.2
18	5 39 29.18 28.05	23 20 6.2	19.56 318 4 402	7 44.8
21	5 39 57.23. 26.41 5 40 23.64	22 20 21 5	10 51 730 4 579	7 33.5
24 27	F 40 48 37 24.73	22 20 35.6	10.47 052 4 007	7 22.1
30	5 41 FI.37	23 29 48.7	19.42 271 4 781	7 10.7
Sept. 2	5 41 32.59	+23 30 1.0 12.3	19.37 406	6 59,2
The second secon	THE RESERVE OF THE PARTY OF THE	THE RESERVE OF THE PARTY OF THE		

15 TEA.	Oh Weltzeit				
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	Obere Kul- mination in Greenwich	
1947	h m s			h m	
Sept. 2	5 41 32.50	+23 30 1.0	19.37 406	6 59.2	
5	5 41 52.00 19.41	23 30 12,3	10.32 468 4 930	6 47.8	
8	5 42 9.54	23 30 22.8 10.5	19.27 465 5 003	6 36.2	
II	5 42 25.16 13.68	23 30 32.3	19.22 410	6 24.7	
14	5 42 30.04	23 30 41.0	19.17 316 5 120	6 13.1	
17	5 42 50.53 9.67	23 30 48.7 6.7	19.12 196 5 130	6 1.5	
20	5 43 0.20	+23 30 55.4	19,07 066	5 49.9	
23	5 43 7.84 7.04	23 31 I.4 0.0	19.01 936 5 130	5 38.2	
26	5 43 13.43 5.59	23 31 6.5 5.1	18.96 821 5 115	5 26.5	
29	5 43 16.97	23 31 10.9	18.91 732 5 089	5 14.8	
Okt. 2	5 43 18.46 1.49 0.57	23 31 14.6 2.7	18.86 684	5 3.0	
5	5 43 17.89 2.61	23 31 17.3	18.81 691 4 928	4 51.2	
8	5 43 15.28	+23 31 10.2	18.76 763	4 39.4	
11	5 43 10.60 4.68	23 31 20.3	18.71 914	4 27.5	
14	5 43 3.88 6.72 8.74	23 31 20.4 0.1	18.67 156 4 758	4 15.6	
17	5 42 55.14	23 31 19.9	18.62 508 4 526	4 3.6	
20	5 42 44.43	23 31 18.4 2.5	18.57 982 4 392	3 51.6	
23	5 42 31.77	23 31 15.9	18.53 590 4 244	3 39.6	
26	5 42 17.23 16.37	+23 31 12.5	18.49 346	3 27.6	
29	5 42 0.86	23 31 8.5 4.0	18.45 259 3 915	3 15.5	
Nov. 1	5 41 42.71	23 31 3.4 6.1	18.41-344	3 3.4	
4	5 41 22.85	23 30 57.3	18.37 011	2 51.3	
7	5 41 1.34	23 30 50.3	18.34 071	2 39.2	
10	5 40 38.25 24.57	23 30 42.4 8.9	18.30 734 3 120	2 27.0	
13	5 40 13.68	+23 30 33.5	18.27 614	2 14.8	
16	5 39 47.71 25.97	23 30 23.6 10.9	18.24 719 2 660	2 2.6	
19	5 39 20.40	23 30 12.7	18.22 059	1 50.3	
22	5 38 52.03	23 30 0.9	18.19 045	1 38.0	
25	5 38 22.54	23 29 48.3	18.17 483	1 25.7	
28	5 37 52.10	23 29 34.8	18.15 576	1 13.4	
Dez. I	5 37 20.84	+23 29 20.3	18.13 933	I I.I	
4	5 36 48.88	23 29 4.9	18.12 558	0 48.8	
7	5 30 10.31	23 28 48.7	18.11 456	0 36.5	
10	5 35 43.27	23 28 31.7	18.10 632	0 24.1	
13	5 35 9.92	23 28 14.2	18.10 089	0 11.8	
16	5 34 30.39	23 27 56.0 18.8	18.09 831	23 55.3	
.19	5 34 2.82 33.47	+23 27 37.2	18.09 857	23 43.0	
22	5 33 29.35	23 27 17.9	18.10 100	23 30.6	
25	5 32 50.12	23 26 58.3	18,10 757	23 18.3	
28	5 32 23.20	23 26 38.5	18.11 627	23 5.9	
31	5 31 50.88	+23 26 18.5	18.12 773	22 53.6	
			S. 12 . 15 . 15 . 16	100000	

1	Oh Weltzeit			
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	Obere Kul- mination in Greenwich
1947	h m s			h m
Jan. —1	12 41 53.80 S	-2 52 47.7 o 19.6	30.32 060	6 9.6
+2	12 41 50.00	2 53 7.3 0 12.4	30.20 051	5 57.9
5	12 42 2.37	2 53 19.7	30.21 044	5 46.1
8	12 42 4.95	2 53 24.9	30.16 451 5 165	5 34.4
11	12 42 6.39	2 53 22.8 0 9.3	30.11 286 5 122 30.06 164	5 22.6 5 10.8
14	12 42 6.69 0.85	2 53 13.5 0 16.5	5 000	
17	12 42 5.84	-2 52 57.0 0 23.7	30.01 098	4 59.0
20	12 42 3.86	2 52 33.3	29.90 104	4 47.2
23.	12 42 0.70	2 52 2.0	29.91 190	4 35.3
26	12 41 50.50	2 51 25.0	29.86 389 4 694	4 23.4
29	12 41 51.20 6.36	2 50 40.7	29.81 695 4 565	4 11.5
Febr. 1	12 41 44.90 7.38	2 49 49.9 0 57.1	29.77 130 4 423	3 59.6
4	12 41 37.52	-2 48 52.8	29.72 707	3 47.7
7	12 41 29.14	2 47 49.6 1 3.2	29.68 436 4 107	3 35.8
10	12 41 19.79	2 46 40.4	29.04 329	3 23.9
13	12 41 9.50	2 45 25.7	29.00 397	3 11.9
16	12 40 58.31	2 44 5.5 I 25.3	29.50 053	2 59.9
19	12 40 46.27	2 42 40.2	29.53 107 3 337	2 47.9
22	12 40 22 41	-2 41 10.2	20.49 770	2 35.9
25	12 40 10.70	2 30 35.7	29.46 651 3 119	2 23.9
28	12 40 5.47	2 37 57.1	29.43 760 2 654	2 11.8
März 3	12 30 50.40	2 36 14.8 1 42.3	29.41 100	1 59.8
6	12 39 34.92 16.11	2 34 29.2 I 45.6	29.38 692	1 47.8
9	12 30 18.81	2 32 40.6	29.36 526	1 35.7
12	12 39 2.22	-2 30 40.4	20 34 613	1 23.6
15	12 38 45.21	2 28 56.1 1 53.3	20.32 959	1 11.5
18	12 38 27.82 17.39	2 27 0.0 1 55.2	20.31 568 1 391	0 59.4
21	12 38 10.14	2 25 4.2 1 50.7	20.30 445	0 47.4
24	12 37 52 22 17.92	2 23 6.6 1 57.0	20.20 501	0 35.3
27	12 27 34 13	2 21 8.4	29,29 011	0 23.2.
	10.10	-2 19 10.2	29.28 704	0 11.1
April 2	12 37 15.95 12 36 57.74	2 17 12.2	20 28 660 35	23,55.0
April 2	TO 26 20 FF 18.19	2 15 15 0 1 57.2	20 28 005	23 42.8
. 8	12 36 21.46	2 13 10.1	20.20 411	23 30.8
11	12 36 3.52 17.94	2 11 24.5	20 30 184	23 18.7
14	12 35 45.70	2 0 21 8 1 52.7	20 31 222	23 6.6
	17.40	1 30.4	1 301	22 54.5
17	12 35 28.33	-2 7 4I.4 1 47.8	29.32 523 29.34 082	22 42.4
20	12 35 11.21 16.72	2 5 53.6 2 4 8.9	20 25 805	22 30.4
23	12 34 54.49 16.28	2 2 27 6 1 41.3	20 37 056	22 18.3
26	12 34 38.21	2 2 27.6 2 0 50.1	20.40 256	22 6.2
Mo: 29	12 34 22.40	—I 59 16.7 I 33.4	- 534	21 54.2
Mai 2	12 34 7.28 15.16	1 39 10.7		

		Oh Weltzeit		Obere Kul-	
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	mination in, Greenwich	
1947	h m s			h m	
Mai 2	12 34 7.28 s	—I 59 I6.7 <sub>I 29.0</sub>	29.42 790 2 758	21 54.2	
5	12 33 52.71	I 57 47.7	29.45 548	21 42.2	
8	12 33 38.80	I 50 23.3	29.48 522	21 30.1	
II	12 33 25.59	i 55 3.9 1 14.3	29.51 704	21 18.1	
14	12 33 13.14 11.67	I 53 49.6 I 8.8	29.55 085 3 573	21 6.1	
17	12 33 1.47 10.84	1 52 40.8	29.58 658 3 754	20 54.1	
20	12 32 50.63	—I 5I 37.7 0 57.3	29.62 412	20 42.2	
23	12 32 40.66	1 50 40.4	29.66 335	20 30.2	
26	12 32 31.60	I 49 49.3 0 44.8	29.70 418	20 18.3	
T . 29	12 32 23.47	1 49 4.5 0 38:4	29.74 646	20 6.3	
Juni 1	12 32 16.30 6.20	I 48 26.1 0 31.9	29.79 009	19 54.4	
4	12 32 10,10	1 47 54.2 0 25.4	29.83 494 4 596	19 42.5	
7	12 32 4.89	—1 47 28.8 o 18.6	29.88 090	19 30.7	
10	12 32 0.70	1 47 10.2	29.92 787 4 784	19 18.8	
13	12 31 57.54	1 46 58.4	29.97 571 4 860	19 7.0	
16	12 31 55.42	1 40 53.4	30.02 431	18 55.1	
. 19	12 31 54.36	I 46 55.2 6 8.8	30.07 350	18 43.3	
22	12 31 54.38	1 47 4.0	30.12 330 5 010	18 31.5	
25	12 31 55.47	—1 47 19.9 0 22.6	30.17 340 <sub>5 032</sub>	18 19.8	
2.8	12 31 57.63	I 47 42.5	30.22 372	18 8.0	
Juli 1	12 32 0.85	1 48 12.0	30.27 415	17 56.3	
4	12 32 5.13	1 48 48.3	30.32 456	17 44.5	
7	12 32 10.47	1 49 31.1	30.37 483 5 001	17 32.8	
10	12 32 16.84 7.40	1 50 21.0 0 56.1	30.42 484 4 964	17 21.2	
13	12 32 24.24 8.45	—I 5I 17.I	30.47 448	17 9.5	
16	12 32 32.69	1 52 19.8	30.52 363 4 853	16 57.8	
19	12 32 42.14 10.45	I 53 28.9 I 15.3	30.57 210	16 46.2	
22	12 32 52.59	I 54 44.2	30.01 993	16 34.6	
25	12 33 4.01	I 50 5.5	30.66 683	16 23.0	
28	12 33 16.38	I 57 32.7 I 32.9	30.71 273 4 481	16 11.4	
31	12 33 29.67	—1 59 5.6 1 38.3	30.75 754	15 59.8	
Aug. 3	12 33 43.87	2 0 43.9	30.80 II5 4 361	15 48.3	
6	12 33 58.93	2 2 27.5 1 48.8	30.84 346 4 092	15 36.7	
9	12 34 14.83	2 4 10.3	30.88 438	15 25.2	
12	12 34 31.54	2 0 10.0	30.92 381	15 13.7	
15	12 34 49.06 18.26	2 8 8.5 2 2.9	30.96 165 3 614	15 2.2	
18	12 35 7.32 18.98	-2 IO II.4	30.99 779	14 50.7	
21	12 35 26.30 19.66	· 2 12 18.5 2 7.1 2 11.0	31.03 213 3 434	14 39.2	
24	12 35 45.96	2 14 29.5	31.06 460 3 247 3 051	14 27.7	
27	12 36 6.25	2 16 44.3 2 18.1	31.09 511	14 16.3	
30	12 36 27.14	2 19 2.4	31,12 300 2 641	14 4.8	
Sept. 2	12 36 48.59	-2 21 23.6	31.15 001	13 53.4	

		Oh Weltzeit		
Tag	Scheinbare Rektaszension	Scheinbare Deklination	Δ	Obere Kul- mination in Greenwich
1947	h m s			h m
Sept. 2	12 36 48.59 s	-2 21 23.6	31.15 001 2 426	13 53.4
5	12 37 10.55	2 23 47.7	31.17 427 2 206	13 42.0
8	12 37 33.00	2 26 14.4	31.19 633	13 30.5
II	12 37 55.88	2 28 43.4	31.21 611	13 19.1
14	12 30 19.17	2 31 14.0	31.23 350 I sos.	13 7.7
17	12 38 42.80 23.63	2 33 47.5 2 34.3	31.24 861	12 56.3
20	12 30 6.73	—2 36 21.8	31.26 125	12 44.9
23	12 39 30.91	2 38 57.1 2 35.3 2 36.1	31.27 142 769	12 33.5
26	12 39 55.30 24.39	2 41 33.2 2 36.6	31.27 911	12 22.1
29	12 40 19.84 24.54	2 44 9.8 2 36.7	31.28 430	12 10.7
Okt. 2	12 40 44.48 24.64	2 46 46.5 2 36.5	31.28 697	11 59.4
5	12 41 9.19	2 49 23.0 2 36.2	31.28 712 240	11 48.0
8	12 41 33.91	2 51 59. <sup>2</sup>	31.28 472	11 36.6
II	12 41 58.61 24.70	2 54 34.6	31.27 070	11 25.2
14	12 42 23.22 24.61	2 57 8.9 34.3	31.27 229	11 13.8
17	12 42 47.70 24.48	2 59 41.9 2 33.0	31.26 226	11 2.4
20	12 43 11.99 24.29	3 2 I 3. I 2 29.2	31.24 971 1 505	10 51.0
23	12/43 36.03 24.04	. 3 4 42.3 2 26.7	31.23 466 1751	10 39.6
26	12 43 59.77	-3 7 9.0	31 21 715	10 28.2
29	12 44 23.10 23.42	3 0 33.0	27 10 725	10 16.8
Nov. I	12 44 46,22 23.03	3 11 54.2	31.17.408	10 5.4
4	12 45 8.82 22.00	3 14 12.1	31.15 038 2 460	9 54.0
7	12 45 30.94 22.12	3 16 26.4 2 14.3	31.12 351 2 908	9 42.6
10	12 45 52.54	3 18 36.8 2 10.4	31.09 443 3 125	9 31.1
13	12 46 13.56	—3 20 43.3	31.06 318	9 19.7
16	12 46 33.95	3 22 45.4	31.02 984 3 334	9 8.2
19	12 46 53.67 19.72	2 24 42 7 31.3	*30.00 453 3 531	8 56.7
22	12 47 12.67 19.00	3 26 35.0 1 34.3	30.05 733	8 45.3
25	12 47 30.91 18.24	2 28 22 1 4/1	30.01 831 3 902	8 33.8
28	12 47 48.36 17.45	2 20 2 7	30.87 758 4 073	8 22.3
Dez. 1	12 48 4.98	1 30.1	30.83 526	8 10.7
Dez. 1	12 48 20.73	-3 31 39.8 3 33 10.0	20 70 144 4 302	7 59.2
7.	12 48 35.58 14.85	3 34 34.2	4 523	7 47.6
10	12 48 49.48	3 35 52.2	30 60 060 4 052	7 36.1
13	12 40 2.41 12.93	2 37 3.6	30.65 202 4 707	7 24.5
16	12 40 14.32 11.91	2 28 85 4.9	30.60 331 4 871	7 12.9
	10.88	-3 39, 6.5 a 51.7	30.55 370	7 1.3
19	12 49 25.20 9.82		30.50 333 5 037	6 49.7
22 25	12 49 35.02	3 40 41.7	30.45 235	6 38.0
25	12 49 43.76 12 49 51.41	2 41 18.8	20 40 088 5 147	6 26.3
31	12 49 57.95 6.54	3 41 48.9 ° 30.1	30.34 903 5 185	6 14.6
3.	1, 49 37.93	specific from 19	la de la compa	2 × 100

Oh	M i	ttl	eres Äquinokti	ų m	1950.0		
Weltzeit	X	ΔX	Y	ΔY	Z	ΔZ	
1947		- Land			A training to	47.6	
Jan. o	+0.149 798 + 17 259 - 49	-4	-0.891 584 <sub>+ 2 604</sub> +278	+2	-0.386 677 <sub>+1 130</sub> +121	-2	
1	0.107 057	0	0.888 980 2880 276	+2	0.385 547	-4	
2	0.184 263	—I	0.886 100 2 156 276	+4	0.384 298	+3	
3	0.201 410	—I	0.882 944 273	-3	0.382 929	+3	
4	0.218 493	+1	0.879 515 272	-4	0.381 441 1 606 118	+1	
5	0.235 507 16 940 74	+2	0.875 814 3 972 271	-2	0.379 835 1 724 118	+1	
6	+0.252 447 +16 862 - 78	+4	-0.871 842 +270	+1	-0.378 III +1 840 +116	-3	
7	0.209 309 76 778 04	0	0.807 000	+2	1 057	+1	
8	0.280 087	+1	.0.803 090	+5	0.374 314	-2	
9	0.302 777 16 597 93	+2	0.858 312 200	+1	0.372 242	+3	
10	0.319 374 16 499 98	+3	0.853 208 208	<b>—</b> 5	0.370 054 2 302 114	-1	
11	0.335 873 16 397 102	+4	0.847 960 5 571 263	-3	0.367 752 2 417 115	+2	
12	+0.352 270 +16 288 -109	<b>—</b> 3	-0.842 389 + 5 834 + 263	+3	-0.365 335 <sub>+2 529</sub> +112	-4	
13	0.308 558 16 176 112	0	0.830 555	—I	0.362 806 2 643 114	+4	
14	0.384 734	<b>—</b> 5	0.830 461 6 253 259	<u>-1</u>	0.300 103	0	
15	0.400 791	-3	0.824 108 6 610 257	-2	0.357 408 2 866	-I	
16	0.410 725	-4	0.817 498 6 865 255	-3	0.354 542 2 977	0	
. 17	0.432 530 15 672 133	-1	0.810 633 7 118 253	-I	0.351 565 3 086 109	-2	
. 18	+0.448 202 -139	-3	-0.803 515 + 251	0	-0.348 479 +109	+2	
19	0.463 735 15 389 144	-4	0.790 140 7 618	+1	0.345 284 200	+5	
20	0.479 124 15 240 149	<del>-4</del>	0.788 528 7 864 246	-I	0.341 900	-2	
21	0.494 304 15 086 154	0	0.780 004	0	0.338 570	-2	
22	0.509 450	+3	0.772 556 8 348 240	<u>-4</u>	0.335 054 3 620 104	-5	
23	0.524 378 14 764 164	-2	0.764 208 8 587 239	+.3	0.331 434 3 724	-I	
24	+0.539 142 -169	-3	-0.755 621 + 8 822 +235	+1	-0.327 710 +102 0.323 884 101	-3	
25	0.553 737	+2	0.740 799 0 054	+1	3 027	-3	
26	0.508 159	+5	0.737 745	+4	0.319 957	<u>5</u>	
27	0.582 404	+1	0.728 462 226	+5	0.315 931 98	-3	
28	0.590 407	₹-4	0.718 953 0 732 223	+4	0.311 807 4 221 97	+1	
29	0.610 343 13 685 191	-3	0.709 221 9 950 218	-3	0.307 586 4 316 95	I	
30	+0.624 028 +13 491 -194	+3	-0.699 271 +10 165 +215 0 680 106 +213	-2	-0.303 270 + 93	-1	
31	0.037 519	+3	TO 208	+4	0,290 001	+3	
Febr. 1	0.050 812 202	+1	0.078 728 208	-r	0.294 359	-3	
2	0.003 903	-2	0.668 142 205	-2	0.289 708 4 681 90	+4	
3	0.676 788 209	+2	0.057 351	-4	0.285 087	+1	
4	0.689 464 12 464 212	+5	0.646 359 11 191 199	0	0.280 319 4 854 86	-1	
5	+0.701 928 +12 249 -215	+5	-0.635 168 + 11 385 + 194 0.623 783 + 11 385 + 192	<b>—3</b>	$-0.275\ 465_{+4\ 938}^{+84}$	-2	
6	0.714 177	2	II 577	0	0.270 527 5 921 83	I	
7	0.726 206 11 807 222	+1	0.012 200 II 765	<b>—</b> I	0.265 506 5 102 81	0	
8	O.738 OI3 11 581 226	+1	0.000 441	0	0.200 404 5 183 81	+4	
9	0.749 594 + 11 352 229	+2	0.588 491	0	0.255 221 78	—I	
10	+0.760 946 -233	0	-0.576 359 +177	-5	-0.249 960 + <del>77</del>	—I	
ΔX,	AX, AY, AZ sind in Einheiten der 7. Dezimale gegeben.						

Оь	Mittleres Äquinoktium 1950.0									
Weltzeit	X	ΔX	Y	ΔY	Z	ΔZ				
1947		E. E.								
Febr. 10	+0.760 946 +11 119 -233	0	-0.576 359 + 12 309 + 177	<b>—</b> 5	-0.249 960 0.244 622 +5 338 76	<u>-1</u>				
II	0.772 065	0	0.504 050	0	E ATA	+1				
. 12	0.782 948 10 643 240	-2	0.551 500	-r	0.239 208 5 487 73	-3				
13	0.793 591	-ı	0.538 912	+3	0.233 721 5 560 73	+3				
14	0.803 991	-1	0.526 090 12 984 162	-4	0.228 101 71	+1				
15	0.814 144 9 904 249	+4	0.513 106 13 143 159	-I	0.222 530 5 699 68	-2				
16	+0.824 048 + 9 651 -253	+2	-0.499 963 +13 298 +155 0.486 665 150	—I	-0.216 831 +5 767 +68	+3				
17	0.833 699 256	+2	T2 448	-2	0.211 004 5 832 65	-r				
18	0.843 094 259	+1	0.473 217	+1	0.205 232	—I				
19	0.852 230	+2	0.459 022	-3	0.199 337 62	+4				
20	0.801 104	+3	0.445 880 12 874 138	+2	0.193 380 6 018 61	+5				
21	0.869 714 8 342 268	-4	0.432 012	+1	0.187 362 6 074 56	<del>-4</del>				
22	+0 878 056 -270	-4	-0.418 005 +128	—I	-0.181 288 <sub>+6 131</sub> +57	+2				
23	0.886 128 273	-3	0.403 870 123	-2	0.175 157	<b>—5</b>				
24	0.893 927 7799 273	+4	0.389 612 14 377 119	0	0.168 973 6 225 51	-4				
25	0.901 453 7 526 278	-4	0.375 235	-r	0.162 738	+1				
26	0 008 701 277	+3	0.360 744	-4	0.156 453 6 233 48	+3				
27	0.915-672 6 690 281	-4	0.346 145 14 704 105	+4	0.150 120 6 378 45	-1				
28	+0.922 362 -281	0	-0.331 441	+3	$-0.143742_{+6420}^{+42}$	-4				
März 1	0.928 771 6 125 284	-4	0.310 037	-3	6 460	+4				
2	0.934 896 5 842 283	+4	0.301 739	—I	0.130 860 6 501 39	+3				
3	0.940 738	+r	0.286 751 15 074 86	+1	0.124 359 6 538 37	+2				
4	0.940 295	-5	0.271 077	-1	0.117 821 6 573 35	+1				
5	0.951 565 4 982 288	-3	0.256 522 15 232 77	-1	O.111 248 6 606 33	+1				
6	+0.956 547 + 4 695 -287	+3	-0.241 290 + 72	<del>-4</del>	$-0.104642_{+6637}^{+31}$	+1				
7	0.061 242 290	-4	0.225 986 15 372 68	-4	0.098 005 6 667 30	+5				
8	0.965 647 4 405 291	<b>—</b> 5	0.210 614 15 436 64	-3	0.091 338	+1				
9	0.969 761 3 823 291	+1	0.195 178	<u>-5</u>	0.084 044 6 720 20	+2				
.10	0.973 584 3 530 293	-1	0.179 083	-2	0.077 924 6 744 24	十工				
II	0.9.77 114 3 236 294	—I	0.164 133 15 601 51	-1	0.071 100 6 765	-5				
12	+0 080 350 -294	+4	-0.148 532 + 45	<b>—</b> 5	-0.064 415 +6 785 +20	-2				
13	0.983 292 2 646	+2	U.132 000 TE 688	0	0.057 030 6 802	-I				
14	0.985 938 2 350 296	+1	0.117 198 15 724 30	-2	0.050 827 6 819 16	+1				
15	1 0 0XX 2XX 298	-2	0.101 474 33	+2	0.044 008 6 833	0				
16	0.990 340 2052 298	+1	0.085 717 15 783 20	-5	0.037 175 6 844 11	-2				
17	0.992 094 1 754 298	+4	0.069 934 15 805 22	<u>-3</u>	0.030 331 6 855	+4				
18	+0.993 550 + 1 157 -299	+4	-0.054 129 + 15 823 + 18	37-55.0	-0.023 476 +6 862 + 7	-2				
19		+3	0.038-300 15 836 13	+4	0.016 614 6 867 5	-1				
20	0 005 565 300	0	0.022 470	0	0.009 747 6 871 4	+5				
21	0.006 123 550 300	0	-0.000 027 TE 84E + 2	-2	-0.002 876 6 873 + 2	+5				
22	0.996 381 299	+4	1+0.009 218	3	+0.003 997 +6 871 - 2	+2				
23	+0.996 340 41 -300	+1	+0.025 061 - 8	+1	+0.010 868 -3	0				

O <sub>P</sub>			M i	ttl	eres Äquinokti	um	1950.0	
Weltze	eit	X.		ΔX	Y	ΔY	Z	ΔZ
1947			11.500	8	Form the Control			
März a	23	+0.996 340	<b>—300</b>	+1	+0.025 061 - 8	+1	+0.010 868 -3	0
233	24	0.995 999	- 34I 640	+4	0.040 896 + 15 835 13	+2	0.017 736 6 863 5	0
4	25	0.995 359	938 298	+5	0.050 718	+4	0.024 599 6 855 8	-4
	26	0.994 421	1 235 297	+5	0.072 523	+1	0.031 454 6 844 11	<b>—</b> 5
	27	0.993 186	1 533	-3	0.088 305 15 754 28	-2	0.038 298 6 804 10	-4
	28	0.991 653	1 828 295	+3	0.104 059 15 721 33	-3	0.045 132 6 819 15	-3
	29	+0.989 825	-294	+3	10 Tto 780 - 16	+3	+0.051.051 -16	-2
	30	0.987 703	2 122 293	0	0.135 465 +15 085 43	-3	0.058 754 003 10	<b>−3</b>
	31	0.985 288	2 415 292	<b>—</b> 3	0.151 107 45	+2	0.065 538 6 784 19	+2
April	1	0.982 581	2 707 2 997	-3	0.166 704 15 597 52	-4	0.072 303 6 742 23	-3
	2	0.979 584	3 287	<b>—</b> 5	0.182 249 15 545 54	+3	0.079 045 6 718 24	— <b>1</b>
1000	3	0.976 297	3 573 286	+3	0.197 740 15 491 59	+2	0.085 763 6 693 25	+2
	4	+0.972 724	-287	-3	+0.213 172 - 63	—I	+0.002.456 -28	-2
	5	0.968 864	- 3 860 284	+1	0.228 541 +15 309 68	-5	0 000 121 +0 005	-3
	6	0.964 720	4 144 284	-3	0.243 842 15 301 71	-4	0 105 756 0035 30	+3
	7	0.960 292	4 428 282	0	0,259 072 15 230 76	-5	0.112 361 0005 33	-2
	8	0.955 582	4 710 280	+3	0.274 226 15 154 80	-3	0.118 933 0 572 35	-5
	9	0.950 592	4 990 280	-1	0 280 300 15 074 84	+1	0 125 470 537 27	-5
	10	+0.945 322	5 270 —277	+5	+0.304 290 - 87	+4	+0.131 970 -38	0
	11	0.939 775	- 5 547 <sub>276</sub>	$\begin{vmatrix} \pm 5 \\ \pm 3 \end{vmatrix}$	0 210 102 +14 903	<del>-4</del>	0.138 432 40	+3
	12	0.939 773	5 823	0	0.334 002		0.144 854 6 422 41	+5
	13	0.927 854	6 098	0	0 248 715 14 713 701	the same	O 151 225 0 301	-2
	14	0.921 483	0 371	+5	0.363 327 14 612 106	10 C.	0 057 571 0 330	+4
	15	0.914 842	6 641	+2	0.377 833 14 500 109	0	0 162 862 0 291 47	+4
	1053	A. C.	6 910		14 397		0 244	A 16 Y
	16	+0.907 932 0.900 754	- 7 178 268	-4	+0.392 230 0.406 512 118	-4	+0.170 106 0.176 300 51	—I
	17	0.900 /54	7 442 264	0	0.406 512 14 164 122	+2	0 143	+2
	State of	0.885 606	7 706	<del>-4</del>   +4	0.434 718	+5	0 000	+2 +3
	19 20	0.877 641	7 965 258	0	0.448 633	10000	0.188 533 6 035 55 0.194 568 56	+4
	21	0.869 418	8 223	-2	0 462 416 13 703	1000000	0.200 547 5 979 60	-2
			8 478		13 048	1 800	5 919	BY (523)
	22	+0.860 940	- 8 731 <sup>-253</sup>	-4	+0.476 064 +13 508 -140	10000	+0.206 466 +5 859	+3
	23	0.852 209	8 979	+3	0.489.572 13 364 144	A 50000000	0.212 325 5 707	+3
	24	0.843 230	9 225	-1	0.502 936 13 304 148	THE PARTY	0.218 122 5732 65	-1
	25	0.834 005	9 468 243	-3	0.516.152 13 065		0.223 854 5 667 65	+4
	26	0.824 537	9 707 239	I	0.529 217 12 909 156	STATE OF THE PARTY OF	0.229 521 68	+1
	27	0.814 830	9 942 235	, 0	0.542 126 12 751 158	15000	0.235 120 5 530 69	+4
CONTRACTOR OF THE PARTY OF THE	28	+0.804 888	-10 175 -233	-5	+0.554 877 +12 588 -163	-4	+0.240 650 -70	+5
No.	29	0.794 713	10 404	-4	0.507 405	0.00000000	0.240 110 - 188 /2	+3
	30	0.784 309	10 630 226	-2	0.579 888 12 255 168	+3	0.251 498 73	+3
Mai	1	0.773 679	10 851	+4	0.592 143	-60000	0.250 813	0
No No Contract	2	0.762 828	219	0	0.604 226	+1	0.202 053 76	+1
	3	+0.751 758	11 070 —216	THE PARTY OF	+0.616 135 +11 909 -178	0.000	+0.267 217 +5 164 -77	+3

<sup>1</sup> X, 1 Y, 1 Z sind in Einheiten der 7. Dezimale gegeben.

0р		Mittl	eres Äquinokti	um	1950.0	
Weltzeit	X	ΔX	Y	ΔY	Z	ΔZ
1947		10 (28)				
Mai 3	77 286	-4	+0.616 135 -178	-4	+0.267 217 +5 087 -77	+3
4	77 400	213 -5	0.027 800	-3-	0.2/2 304 5 000 78	+4
5	0.728 973	208 +3	0.039 410	+2	0.277 313	+2
6	0.717 200	206 -2	0.650 783	+4	0.282 242 4 849 80	+3
7	12 776	203 -4	0.661 964 10 991	6137	0.287 091 4766 0.291 857 84	-4
8	12 315	199 -1-	0.672 955 10 799 192	+3		-2
9	12 517	196 —1	+0.683 754 +10 604 -195	+3	+0.296 539 - 84 0.301 137 +4 598 85	+5
10	0.008 411	192 -1	0.694 358	-2	0.301 13/ 4 513	+4
II	0.055 708	189 -3	0.704 703	+1	0.305 050 2 425	-3
12	77 078	186 -5	0.714 967 10 000 204	+2	0.310 075 4 337	-3
1.3	0.029 /30	181 0	0.724 967 9 793	+1	0.314 412 90 0.318 659 91	-5 -c
14	0.616 479	179 -3	0.734 760 9 583 \ 210	-1	4 150	-5
15		173 +4	+0.744 343+ 9 370 -213	—I	1-0.322 815 +4 064 - 92	-5
16	0.589 430	171 -2	0.753 713 0 154 -216	0	0.326 879	-4
17	0.575 040	166 —2	0.762 867 8 937 217	+4	0.330 849 3 876 94	+2
18	0.561 700 14 111	163 -3	0.771 804 8 774 223	+5	0.334 725 3 780 96	+1
19	0.547 589	157 +2	0.780 518 8 401 223	+1	0.330 505 3 683 97	+3
20	0.533 321	154 -2	0.789 009 8 264 227	-3	0.342 188 3 585 98	+3
21	+0.518 800 -	149 +1	+0.797 273 + 8 035 -229	-1	+0.345 773 +3 486 - 99	十工
22	0.504 328 -14 571	143 +4	0.805 308 7 804 231	0	0.349 259 3 385	-4
23	0.489 614 14 854	140 -4	0.813 112 7 570 234	-4	0.352 044 3 283 102	-3
24	0.474 760 14 989	135 -5	0.820 682 7 335 235	-1	0.355 927 3 182 101	+3
25	0.459 //1	1302	0.828 OI7 7 008 237	-2	0.359 109 3 979	—I  —4
26	0.444 652 15 244	125 0	0.835 115 6 859 239	-3	0.362 188 2 974	2500
27	+0.429 408	120 +2	+0.841 974+ 6 619 -240	-2	+0.365 162 +2 871 -103	+4
28	0.414 044 15 481	117 -3	0.848 593 6 377 242	<u></u> I	0.368 033 2 766 105	0
29	0.398 503	111 0	0.854 970 6 135 242	+2	0.370 799 2 660 106	+5
30	0.382 97 1	108 -3	0.861 105	-2	0.373 459 2 554	-3
31	0.307 271	102 +4	0.866 995	0	0.376 013 2°447 106	-3 + 2
Juni r	0.351 469 15 901	99 O	0.872 640 5 398 247	-2	2 341	100
2	+0.335 568 -	94 +2	+0.878 038 + 5 150 -248	-2	+0.380 801 -109	+5
3	0.319 573 16 085	90 +3	0.883 188 4 901 249	-1	0.383 033	+3
4	0.303 488 16 170	85 +5.	0.888 089	<b>—</b> 3	0.385 158 2 016 109	+1
5	0.287 318	82 —1	0.892 739	+3	0.387 174 1 907	+3
6	0.271 066	77 +1	0.897 1.38	100000000	0.389 081 1798 109	+4
7	0.254 737 16 401	72 +3	0.901.284 3 892 254	+3	0.390 879 1 688 110	18 A S
8	+0.238 336 -	- 69 —I	+0.905 176	+4	+0.392 567 +1 577 -111	-4
9	0.221 866	63 +3	0.908 814 3 381 257	-3	0.394 144 1 466	-3
10	0.205 333	60 I	0.912 195 3,124 257	-3	0.395 610	-2
11	0.188 740	54 +2	0.915 319 2865 259	STATE OF THE PARTY OF	0.396 965	-4
12	0.172 093 -16 698	51 -3	0.918 184 + 2 607 258	1000	0.398 208	<del>-4</del> +2
13	+0.155 395 -	45 +1	+0.920 791 -261	1 -4	+0.399 338 -112	

0h		M i	ttl	eres Äquinokt	ium	1950.0	5 70
Weltzeit	X		ΔX	Y	ΔY	Z	12
1947	12 4-11 12 11		270		179		10 %
Juni 13	+0.155 39516	- 45	+1	+0.920 791 +2 346	-4	+0.399 338 -112	+
14	0.138 052	a AT	-I	0.923 137 2 085 261	-2	0.400 356 905 113	+
15	0.121 868	26	0	0.925 222 1 823 262	-3	0.401 261 791	3
16	0.105 048	31	+1	0.927 045 1 560 263	-2	0.402 052	+
17	0.088 197	25	+4	0.928 605 263	-4	0.402 730	-
18	0.071 321 16	22	-3	0.929 902 1 033 264	-4	0.403 293 448 115	A.
19	+0.054.422	- 14	+4	+0 030 035 -265	-5	+0.403 741114	+
4 20	0.037 511	912	-2	0.931 703 706 263	+2	0.404 075 334 114	+
21	0.020 488	_ = =	+1	0.032 208 505 265	-5	0.404.205 220 116	-
22	+0.002.660	928	+5	0.932 448 240 264		0.404 399	14_
23	-0.012.267	927	+1	0 032 424 264	-	0.404 389 115	-
24	0.030 180	922	_ı	0.032 136 288	+3	0.404 264 125	
1 7 1 4	16		ELIES	550	30.3	239	
25	-0.047 IOI -16	97 + 15	0	+0.931 586 813 263	9 3 33	+0.404 025 - 353	+
26	0.063 998	20	<u>-1</u>	0.930 773 1 075 262	-2	0.403 072	+
27	0.000 075	853	-4	0.929 698	-I	0.403 205 580 113	+
28	0.097 728		-5	0.928 362 1 597 261	-I	0.402 625 693	+
29	0.114 553	791 34	+3	0.926 765 1 856 259	+1	0.401 932 806 113	1
30	0,131 344	753 3 <sup>8</sup>	+3	0.924 909 2 116 260	<b>-5</b>	0.401 126 918	+
Juli 1	-0.148.007	+ 42	+2	+0.922 793 -259	-4	+0.400 208 -112	
2	0.164 808	47	+1	0.920 418 257	+3	0.399 178 113	_
3	0.181 472	50	-3	0.917 786 2 632 257	0	0.398 035 1143	+
- 4	0.198 086	56	+1	0.914 897 3 146 257	-3	0.396 782 1253 112	114
5	0 21/ 0//	50	-ı	0.911 /51 255	+1	0.395 417	100
6	0.231 143		+4	0.908 350 3 401 255	-3	0.393 942 1 475 111	-
7			0	+0.904 694 -254	-3	+0 202 256 -110	
8	0.263 943	366 <sup>+ 68</sup>	+2	0.900 784 253	-3	0.390 660 109	-
. 9	0.280 236	293 78	+3	0.896 621 4 163 252		0.388 855 110	
10	0.296 451	215 81	0	0 802 206 4 415 252		0.386 940 1915 108	130
II	0.312 585	134 87	+4	0.887 539 4 667 250	-I	0.384 917 2 023 109	N. W.
12	0.328 632	91	+2	0 882 622 4 917 240	+2	0.382 785 2 132 108	_
1 7 30	15	956	5. 5.30	5 166	1 1 EAG	2 240	- 3
13	-0.344 588 -15	+ 96 B60	+2	+0.877 456 -5 414 -248	1+1	+0.380 545 -2 348 -108	-
14	0.300 448	760 100	—I:	0.872 042 247	—I	0.378 197	+
15	0.370 208	655	—I	0.866 381 5 907 246	-3	0.375 743	
16	0.391 863	544	+4	0.800 474 6 151 244	0	0.373 182 2 667	
17	0.407 407	429	-I	0.854 323 6 393 242	1 100 5	0.370 515 2772 105	
18	0.422 836	119	<b>-5</b>	0.847 930 6 634 241	+1	0.367 743 2877 105	1
19		+ 125 185	—ı	+0.841 296 -6 872 -238	+3	+0.364 866 -103	-3
20	0.453 331	185	+1	0.834 424 236	-1	0.361 886 103	2,2
21	0.468 387	134	+3	0.827 316	-4	0.358 803 102	100
22	0.483 300	130	+5	0.819 973 7 343 231	+3	0.355 618 3 105 100	+
23	0.498 092	141	-2	0.812 399 7 574 229	+2	0.352 333 3205 99	+
24	-0.512 734	+147	+4	+0.804 596 -7 803 -226	+4	+0.348 949 -3 384 - 99	

Ор		M i	ttl	eres Äquinokti	um	1950.0	E leading
Weltzeit	X		ΔX	Y	ΔY	Z	ΔZ
1947		15	141 3		150		1135
Juli 24	-0.512 734 -14 4	+147	+4	+0.804 596 _ 8 029 -226	+4	+0.348 949 -3 483 -99	-r
25	0.527 229	150	+1	0.796 567	0	0.345 466 3 580 97	+1
26	0.541 574	154	+1	0.788 313	+4	0.341 880 97	—I
27	0.555 705	158	+3	0.779 030 8 604 219	+3	0.338 209 3 771 94	+5
28	0.509 798	102	+3	0.771 144	+1	0.334 438 3 865 94	+3
29	0.583 669	164	-4	0.762 233 9 125 214	+3	0.330 573 3 958 93	0
30	-0.597 376	+170	+3	+0.753 108 -211	+4	+0.326 615 -92	0
31	0.610 913	172	-2	0.743 772 9 336 210	<b>-</b> 4	0.322 565 4 140 90	+1
Aug. 1	0.624 278		-2	0.734 226 9 546 206	-1	0.318 425	-2
2	0.037 407	170	-2	0.724 474 0.057 205	-4	0.314 195 4 318 88	-2
3	0.050 477	104	+4	0.714 517	0	0.309 877	-5
4	0.663 303	186	0	0.704 359 10 357 199	—I	0.305 471 4 492 86	0
5	-0.675 043	+101	+3	+0.604.002 -196	0	+0 200 070 -84	+4
6	0.688 302	193	-4	0.683 440 -10 553	-4	0.296 403 4 661 85	-3
7	0.700 648	197	-5	0,672 702 10 747 192	-4	0.201 742 82	+1
8	0.712 707	201	-2	0.661 763 10 939 187	+4	0.286 999 4 743 82	-2
9	0.724 565	204	-2.	0.650 637 11 313 187	-4	0.282 174 4.906 81	-1
10	0.736 219	208	+1	0.639 324 11 495 182	+4	0.277 268 4 984 78	+4
11	-0.747 665	+212	+3	+0 627 820 -179	+4	+0.272 284 -5 063 -79	-2
12	0.758 800	216	+4	0.616 155 11 852 178	-4	0.267 221 5 139 76	+2
13	0.760.017	218	-2	0.604 303 12 025 173	0	0.202 082	-2
14	0.780 717	223	+3	0.592 278 12 196 171	-3	0.256 867 5 289 74	+1
15	0.791 294	227	1-3	0.580 082	+4	0.251 578 5 267 72	+5
16	0.801 644	229	-3	0.567 721 12 525 164	-3	0.246 217 5 431 70	+4
17		+233 388	-2	+0.555 196 <sub>-12 684</sub> -159	I	+0.240 786 -5 501 -70	-4
18	0 821 652		0	0.542 512 12 839 155	<u>-1</u>	0.235 285 5 569 68	-4
19	0.831 305	239	+3	0.529 673 12 990 151	0	0.229 710 5 634	+1
20	0.840.718	113 242	+5	0.516 683	-2	0.224 082 5 608 64	0
21	0.840.880	245	+5	0.503 546	-3	0.218 384 5 760 62	-2
22		246 680	0	0.490 265 13 419	+2	0.212 624 5 821 61	-3
23	-0.867.405	+240	+2	+0.476 846 -136	-4	+0.206 803 -5 879 -58	0
24	0.875.026	13I 252	+5	0.463 291 13 686	-1	0.200 924 5 936 57	-3
25	0.884 105	254	+2	0.449 605 13 814 128	-3	0.194 988	-5
26	0.802.020	255	-4	0.435 701 123	0	0.188 990 53	-2
27	0.899 700	258	-4	0,421 854 13 937 120	-2	0.182 951 6 007 52	-2
28	0 007 112	112 259 153	<b>—</b> 5	0.407 797 14 173 116	-2	0.176 854 6 147 50	0
29	-0.014.265	+262	+1	+0.303 624 -112	0	+0.170 707 _6 196 -49	-ı
30	0.021 155	263	-3	0.370 330 108	+1	0.104 511 6 242 40	+5
31	0.027.782	266	-I	0 364 046 14 393 104	+1	0.158 269 6 287 45	+3
Sept. 1	0.024 142	361 267	-4	0.350 449 14 598	-3	0.151 982 6 227 44	0
2	0.040.227	269	-1	0.335 851 14 595 97	-I	0.145 051 _6 272 41	+3
3	-0.946 062	325 +272	+4	+0.321 156 -92	+4	+0.139 279 -41	-3

Ор		M i	ttl	eres Äquinokti	um	1950.0	
Weltzeit	X		$\Delta X$	Y	ΔY	Z	ΔZ
1947		18 Ex					
Sept. 3	-0.946 062 -5 55	+272	+4	+0.321 156 -14 787 -92	+4	+0.139 279 -6 413 -41	-3
4	0.951 015	272	+2	0.306 369	+2	0.132 866	+1
5 -	0.956 895	275	0	0.291 493	0	0.120 415 6 488 37	I
6	0.961 900	276	-4	0.276 532	-2	0.119 927 6 523 35	0
7	0.900 029	0 279	-2	0.201 490 77	-4	0.113 404 5 5 6 33	+1
8	0.971 079	0 280	-3	0.246 371 15 192 73	<u>_5</u>	0.106 848 6 588 32	-3
9	-0.975 249 88	8+282	0	+0.231 179 -15 261 -69	-2	+0.100 260 -6 618 -30	-1
10	0.9/9 13/ 0.60	205	+5	0.215 918	+4	0.093 642	+1
H	0.982 740	286 7	+3	0.200 594	0	0.080 990	+3
12	0.900 05/	200	-3	0.185 210 75 420 55	-2	0.080 325 6606 25	-3
13	0.989 088	290 I	+3	0.109 771	-2	0.073 629	0
14	0.991 829 2 45	289	-3	0.154 282 15 535 46	-5	0.066 911 6 737	+3
15	-0.994 281 -2 16	+292	+1	+0.138 747 -15 575 -40	-2	+0.060 174 -6 755	-3
16	0.996 441 1 86	201	<b>—</b> 5	0.123 172 15 611 36	-4	0.053 419 6 771 16	<b>—</b> 5
17	0.998 310	292	-2	0.107 501	<b>—</b> I	0.046 648 6 784 13	-3
18	0.999 887	204	+5	0.091 919 15 667 25	+3	0.039 864 6 796 12	<b>—5</b>
19	1.001 170	293	+2	0.070 252	—I	0.033 068 6 805 9	0
20	1.002 160	203	+1	0.060 563 15 705	+4	0.026 263 6 812 7	+2
21	-1.002 857	+294	+5	+0 044 8 E8 -TT	+4	+0.010.451 -4	+4
22	1.003 260 40	204	+5	0.020 142 8	-3	0.012 635 6 820 4	-4
23	1.003 369 + 18	203	+1	+0.013 418 15 724 - 3	-3	+0.005 815 6 821 - 1	-3
24	1.003 185 47	204	+3	+0.013 418 - 3 -0.002 309 15 727 + 3	+2	-0,001 006 6 820 + 1	-3
25	1.002 707	293	+2	0.018 033 15 719 5	-4	0.007 826 6 817 3	-2
26	1.001 936	204	+3	0.033 752 15 707 12	+4	0.014 643 6812 5	-2
27	-1.000 871	+292 7	<b>—</b> 5.	-0.049 459 -15 692 +15	+1	-0.021 455 -6 806 + 6	-5
28	0.999 514 - 45	7 293	-3	0.065 151 19	-2	0.028 261 9	<b>⊸</b> ī
29	0.007 864	292	-4	0.080.824 15 073	+4	0.035 058 6 797 11	+2
30	0.005 022	291	<b>—</b> 5	0.096 472	0	0.041 844 700 12	0
Okt. 1	0.993 689 223	292	+1	0.112 092	-I	0.048 618 6 774	+2
2	0.991 164 2 81	202	+3	0.127 680 15 588 38	+4	0.055 377 6 759 15	-4
3.	-0.988 347 -0.988 347 -3.10	+290	-4	_0 T42 220 ±40	—I	-0.062 121 +19	+1
4	0.905 240	290	<b>—</b> 5	0 158 740 47	+4	0.068 846 725 19	-4
5	0 081 843 3139	200	-2	0 174 202 15 403	3	0.075 552 0 700	-2
6	0.078 156 3 08	200	0	0 180 617 15 414 55	+1	0.082.226 0004 22	-3
7	0.974 179 3 97	200	-4	0.204 076 15 359 59	I	0.088 807 0 001 26	+2
8	0.969 914	289	+2	0.220 276	+1	0.005 532 28	+2
9	4 55	+288	0	-0.235 512 +69	+2	-0 102 130 +20	-2
10	-0.965 360 0.960 518 5 12	286	4	0 250 670 72	-I	0 108 777 570	+1
11	0.955 390 5 12	286	-2	0.265 773 15 094 79	+1	0.115 263 540 34	-1
12	0 0 10 076 5 41	4	-2	0.280 788 15 015 83	-3	0.121 775	-4
13	0.944 278 5 69	284	1+	0 205 720 14 932 88	-4	O T28 252 477 20	+3
14	-0.938 296 <sup>+5</sup> 98	2 +280	-4	-0.310 564 +93	<b>—5</b>	-0.134 690 -6 438 +40	+1
2	SHE TENERS	3 7	ST. AL		187 - W.		MAC S

 $\Delta X$ ,  $\Delta Y$ ,  $\Delta Z$  sind in Einheiten der 7. Dezimale gegeben.

Ор	<b>M</b> i	ttl	eres Äquinokti	u m	1950.0	
Weltzeit	X	<b>∆</b> X	Y	ΔY	Z	ΔZ
1947						
Okt. 14	-0.938 296 <sub>+ 6 262</sub> +280	-4	-0.310 564 -14 751 + 93	-5	-0.134 690 + 40	+1
15	0.932 034 6 543	+4	0.325 315	-4.	0.141 088 6 255 43	+2
16	0.925 491 6 820 277	-I	0.339 968 14 551 102	-4	0.147 443 6 311 44	-3
17	0.918 671 7 096 276	—I	0.354 519	+3	0.153 754 6 265 46	-
18	0.911 575 7 368 272	<del>-4</del>	0.308 902	+1	0.100 019 49	
19	0.904 207 7 640 272	+4	0.383 294 14 215 117	+5	0.166 235 6 166 50	
20	-0.896 567 + 7 908 +268	+1	-0.397 509 +120 0.411 604 125	+2	-0.172 401 -6 113 + 53	+
21	0.888 659	+4	13 970	+2	0.178 514 54	100
22	0.880 484 8 438 263	—I	0.425 574 13 841 129	十工	0.184 573 6 003 50	4
23	0.872 040	-I	0.439 415	-3	0.190 576 5 946 57	-
24	0.863.347 8 958. 259	+2	0.453 123	+5	0.196 522 5 885 61	+;
25	0.854 389 9 213 255	0	0.466 695	+3	0.202 407 5 825 60	
26	-0.845 176 + 9 467 +254	+4	-0.480 125 -13 285 +145	+1	-0.208 232 -5 761 + 64	+:
27	0.835 709 9 717 250	-2	0.493,410	TI	0.213 993	100
28	0.825 992 0 064 247	3	0.500 547	+3	0.219 090 5 630 07	+
29	O.816 O28 10 210 246	+3	0.519 531 /12 827 157	+4	0.225 320 5 563 67	1838
30	0,805 818 10 451 241	-3	0.532 358 12 668 159	3	0.230.883	+
31	0.795 367 10 691 240	+2	0.545 026 12 504 164	-2	0.236 376 5 422 71	+
Nov. 1	-0.784 676 +237	+3	-0.557 530 -12 337 +167	-4	-0.24I 798 + 72	-2
2	0.773 748 11 162 234	+1	0.509 807 12 166 171	-5	0.247 148 5 275 75	•
3	0.762 586 11 393 231	+1	0.582 033	-4	0.252 423 5 200 75	
4	0.751 193 11 622 229	+3	0.594 024	<del>-4</del> .	0.257 623 5 123 77	23
5	0.739 571 11 847 225	-1	0.605 837 11 630 183	+1	0.262 746 5 044 79	
6	0.727 724 12 069 222	+1	-0.617 467 11 443	+4	0.267 790 4 962 82	+.
7	-0.715 655 +12 289 +220	+5	-0.628 910 +191 0.640 162 193	+2	-0.272 752 -4 881 + 81	
8	0.703 366 216	+1	II 050	-3	0.277 033	
9	0.690 861 12 716 211	-5	0.651 221 10 860 199	+4	0.282 429	+
10	0.078 145	-3	0.662 081	+3	0.287 139 4 623 87	1000
11	0.665 221 205	+3	0.672 739 10 452 206	+5	0.291 762 89	20
12	0.652 092	+3	0,683 191 10 242 210	+2	0.296 296 4 443 91	+
13	-0.638 763 <sub>+13 526</sub> <sup>+197</sup>	+4	0.693 433 _10 030 +212	<b>—</b> 5	-0.300 739 -4 350 + 93	+4
14	0.025 237 191	-3	0.703 463 9 814 216	-3	0.305 089	
15	0.611 520 13 717 187	<del>-4</del>	0.713 277 0 504 220	0	0.309 340	+:
16	0.597 616 13 904 183	—I	0.722 871 9 372 222	-2	0.313 507 4 065 90	200
17	0.583 529	SCHOOL STREET	0.732 243	+2	0.317 572 3 967 98	
18	0.569 264 14 440 175	+4	0.741 389 8 918 228	+2	0.321 539 3 868 99	
19	-0.554 824 + 168	-3	-0.750 307 _ 8 687 +231	+2	-0.325 407 -3 768 +100	4
20	0.540 216 165	+2	0.758 994 8 453 234	+4	0.329 175 2 666 102	+!
21	0.525 443 473 160	+3.	0.767 447 8 216 237	+3	0.332 841	+!
22	0.510 510 14 933 156	+4	0.775 663	-4	0.336 404	/+2
23	0.495 421	-1	0.783 042 7727 242	+4	0.339 864 2 255 105	+4
24	-0.480 182 +146	+2	-0.79I 379 +243	+1	-0.343 219 333+106	+;

0 <sub>p</sub>	M i	ttl	eres Äquinokti	um	1950.0	
Weltzeit	X	ΔX	<b>Y</b>	ΔY	Z	ΔZ
1947		1 1 2 1		1		
Nov. 24	-0.480 182 +146 0.464 707 +15 385	+2	-0.791 379 -7 494 +243	+1	-0.343 219 +106	+3
25	0.464 797 15 527	+5	0.798 873 7 249 245	0	0.346 468 106	-3
26	0.449 270 TE 664 137	+2	0.800 122 248	+3	0.349 611 3 143 107	-3
27	0.433 000	—I	0.813 123 6752 249	—I	0.352 047	0
28	0.417 810 15 024	—I	0.819 875 251	-2	0.355 575	+4
29	0.401 886 16 047 123	-2	0.826 376 6 248 253	0	0.358 393 2709 109	-2
30	-0.385 839 + 16 167 + 120	+2	-0.832624 $0.838616$ $+256$ $257$	+4	-0.361 102 -2 598 +111	—т
Dez. I	16 280	-4	אמא א	+1	0.303 /00 2 484	<b>—</b> 3
2	0.353 392 16 301 111	+5	0.044 351	+1	0.366 187	-2
3	0.337 001 16 407	+5	0.849 827 202	+4	0.308 502 2 261 114	+4
4	0.320 504 16 507	-2	0.855 041 263	+2	0.370 823	+1
5	0.303 907 16 692 95	<u>-4</u>	0.859 992 4 934 266	+5	0.372 970 2 032 115	+1
6	-0.287 215 + 16 782 + 91	—I	-0.864 677 +267	+2	-0.375 002 +115	-2
7	0.270 432 16 868	—I	0.860.005 -4 418 270	+3	0.376 010 118	+4
8	0.253 564 16 949 81	+3	0.873 243 4 148 270	-3	0.378 718 1 799 116	-2
9	0.236 615 17 023 74	-3	0.877 121 3 605 273	-I	0.380 401 1 564	+4
10	0.219 592	-3	0,880 720 274	-2	0.381 905	+2
11	0.202 500 17 155 63	-2	0.884 057 3 356 275	-5	0.383 410 1 326 119	-r
12	-0.185 345 + 17 214 + 59	+4	-0.887 II3 +276	-4	-0.384 736 <sub>-1 206</sub> +120	-2
13	0.168 131 17 266 52	0	0.009 093	+1	0.385 942 1 086 120	-2
14.	0.150 865	-2	0.892 395	I	0.387 028	+3
15	0.133 553	+2	0.894 619 279	0	0.387 993	+3
16	0.110 199	-4	0.890 504 7 666 279	I	0.388 837	+5
17	0.098 811 17 418 30	+3	0.898 230 1 386 280	+2	0.389 559 601 121	-1
18	-0.081 393 + 17 443 + 25	+5	-0.899 616 +281 0.900 721 279	+4	-0.390 160 + 122	_ı
19	0.003 950	0	826	-2	0.390 039	<b>—</b> 5
20	0.040 489	0	0.901 547	+5	0.390 997	—I
21	0.029 015	<u>-1</u>	0.902 092 264 281	+4	0.391 233	<u>-1</u>
22	-0.011 534 + 3	+2	0.902 350 280	-r	0.391 347	-2
23	17 480	-3	0.902 340 + 16 279	-4	0.391 340 129 122	+2
24	+0.023 430 0.040 001 +17 471 13	-3	-0.902 045 + 280	+†	-0.391 211 + 250	+1
25	77 458	+1	0.901 4/0 854 279	+3	0.390 961 + 250 121	+3
26	0.058 359	—I	0.900 010	+4	0.390 590	+5
27	0.075 798 17 415 24	-3	0.099 403	+3	0.390 098 613 121	+5
28	0.093 213 17 386 29	-2	0.898 072	+4	0.389 485	+1
29	O.110 599 7 353 33	+1	0.896 383 1 967 278	+5	0.388 752 753 120	+1
30	+0.127 952 - 39	-2	-0.894 416 +277	-1	-0.387 899 +121	+3
2.	O TAE 266 T1/ 314	-2	0.802 172 +2 244 276	-3	0.386 925 119	<b>一</b> 5
32	+0.162 536 <sup>+17 270</sup> - 49	<u>-1</u>	$-0.889652^{+2}520_{+275}$	+1	-0.385 832 +118	-4

1	Mittleres Äquinoktium 1950.0												
Oh Weltz	eit	log r	Helioz. Länge	Red. auf d. Bahn	Helioz. Breite	0 <sup>h</sup> Weltze	eit	log r	Helioz. Länge	Red. auf d. Bahn	Helioz. Breite		
					MERK	UR 194	7		1000				
194	7	1				194;	7	375,					
Jan.	0	9.6617	235.67	+0.06	-0.97	Juli	4	9.6688	260,75	+0.20	-3.83		
	5	9.6682	249.58	+0.15	-2.62	POST .	9	9.6634	274.66	+0.21	-5.13		
	10	9.6682	263.32	+0.20	-4.09	A SECOND	14	9.6516	289.17	+0.18	-6.16		
	15	9.6617	277.32	+0.21	-5.34		19	9.6331	304.81	+0.09	-6.83		
	20	9.6487	292.01	+0.17	-6.32		24	9.6079	322.13	-0.03	-6.98		
	25	9,6288	307.91	+0.07	-6.90		29	9.5769	341.84	-0.16	-6.40		
	30	9.6025	325.63	-0.06	-6.94	Aug.	3	9.5426	4.70	-0,21	-4.79		
Febr.	4	9.5705	345.88	-0.18	-6.18	·	8	9.5107	31.24	-0.12	-2.00		
	9	9.5362	9.40	-0.21	-4.36		13	9.4905	61.16	+0.10	+1.63		
	14	9.5056	36.64	-0.08	-1.36	The same	18	9.4908	92.64	+0.21	+4.96		
	19	9.4888	67.04	+0.13	+2.32		23	9.5114	122.82	+0.11	+6.77		
	24	9.4933	98.50	+0.21	+5.43	18 70 60	28	9.5435	149.55	-0.09	+6.86		
März	ī	9.5168	128.14	+0.07	+6.91	Sept.	2	9.5777	172.38	-0.20	+5.77		
	6	9.5499	154.13	-0.12	+6.72	36363	7	9.6086	191.90	-0,20	+4.11		
	11	9.5839	176.28	-0.21	+5.49		12	9.6336	208.98	-0.13	+2.26		
	16	9.6137	195.27	-0.19	+3.77		17	9.6520	224.38	-0.03	+0.41		
	21	9.6376	211.98	-0.11	+1.91	1930	22	9.6637	238.75	+0.08	-1.34		
	26	9.6547	227.14	0.00	+0.07	10710	27	9.6688	252.59	+0.16	-2.95		
	31	9.6651	241.38	+0.10	-1.66	Okt.	2	9.6674	266.34	+0.21	-4.38		
April	5	9.6690	255.17	+0.18	-3.24		7	9.6594	280.45	+0.21	-5.58		
Salar Salar	10	9,6664	268.96	+0.21	-4.63		12	9,6448	295.36	+0.15	6.48		
	15	9.6573	283.18	+0.20	-5.78	15000	17	9.6236	311.60	+0.05	-6.96		
	.20	9.6414	298.30	+0.13	-6.61	100 5 60	22	9.5959	329.81	-0.09	-6.85		
	25	9.6189	314.85	+0.02	-6.99	12231	27	9.5631	350.71	-0,20	-5.88		
	30	9.5901	333.51	-0.11	-6.74	Nov.	I	9.5288	15.03	-0.20	-3.80		
Mai	3/40		2000000	-0.21	-5,58	77	6	9.5004	43.06	-0.03	-0.57		
Mai	5	9.5567	355.00	-0.21 -0.18	-3.27	10000	II	9.4880	73.92	+0.17	+3.10		
	15	9.5227	48.69	+0.01	+0.12		16	9.4971	105.22	+0.19	+5.91		
	20	9.4907	79.86	+0.19	+3.74	200	21	9.5236	134.15	+0.03	+6.99		
	25	9.5011	110.90	+0.17	+6.26		26	9.5575	159.28	-0.15	+6.52		
	32.30		139,18	-0.01	+7.00	Dez.	I	9.5908	180.66	-0.21	+5.14		
Juni	30	9.5297	163.56	-0.01 0.17	+6.31	Dez.	6	9.5900	199.09	-0.18	+3.37		
Juni	4	9.5640	184.32	-0.17	+4.83	Page 1	11	9.6419	215.40	-0.09	+1.50		
	9	9.5907	202.29	-0.17	+3.02		16	9.6575	230.31	+0.02	-0.32		
	19	9.6453	218.29	-0.07	+1,16		21	9.6665	244.41	+0,12	-2.02		
	L. H.	364533	6708/634	4800000		100		0.6689	258.16	0.000 9 4 - 6	-3.56		
	24	9.6597	233.01	+0.04	-0.65		26		258.10	+0.19	-3.50 -4.90		
T. I.	29	9.6675	247.01	+0.13	-2.32	34200	31	9.6649	2/2.01	70.21	4.90		
Juli	4	9.6688	260.75	+0.20	-3.83	23, 75		7	-	18025			

# Heliozentrische Planetenkoordinaten

Mittleres Äquinoktium 1950.0

0h Weltz	ei <b>t</b>	Julian. Zeit	log r	Heliozentr. Länge	Red. auf d. Bahn	Heliozentr. Breite	log R	Länge
				VENUS	1947		ERDE	1947
194	7	d	A SURSE	0	in 0°001	0		0
	<del>5</del>	2432 180.5	9.85648	116.584	+50	+2.199	9.99\$75	93.665
Sept. In	<del>+</del> 5	190.5	9.85638	132.826	+46	+2.834	9.99268	103.857
	15	200.5	9.85654	149.079	+28	+3.244	9.99283	114.047
	25	210.5	9.85690	165.323	+ 2	+3.394	9.99320	124.225
Febr.	4	220.5	9.85746	181.532	-26	+3.274	9.99378	134.380
	14	2432 230.5	9.85816	197.686	45	+2.897	9.99455	144.504
	24	240.5	9.85896	213.770	<u>50</u>	+2.293	9.99548	154.588
März	6	250.5	9.85977	229.779	<del>-4</del> 0	+1.514	9.99654	164.626
	16	260.5	9.86056	245.716	—ı8	+0.620	9.99771	174.612
	26	270.5	9.86124	261.594	十 9	-0.317	9.99893	184.544
April	5	2432 280.5	9.86178	277.429	+34	-1.228	0.00018	194.419
	15	290.5	9.86213	293.243	+48	-2.045	0,00141	204.238
	25	300.5	9.86226	309.052	+48	-2.705	0.00260	214.002
Mai '	5	310.5	9.86217	324.875	十34	<b>—3.162</b>	0.00371	223.714
	15	320.5	9.86187	340.722	10	-3.379	0.00470	233.379
	25	330.5	9.86137	356.602	—ı8	-3.339	0.00556	243.003
Juni	4	340.5	9.86071	12.519	<del>-40</del>	-3.044	0.00625	252.593
	14	350.5	9.85994	28.477	-50	-2.514	0.00677	262.156
	24	360.5	9.85912	44.479	<del>-45</del>	—I.788	0.00709	271.700
Juli	4	370.5	9.85832	60.527	-26	-0.920	0.00721	281.235
	14	2432 380.5	9.85759	76.624	+ r	+0.023	0.00713	290.769
CHEST .	24	390.5	9.85600	92.770	+27	+0.967	0,00685	300.311
Aug.	3	400.5	9.85660	108.962	+46	+1.837	0.00636	.309.869
	13	410.5	9.85640	125.192	+50	+2.561	0.00570	319.453
	23.	420.5	9.85644	141.442	+38	+3.082	0.00487	329.070
Sept.	2	2432 430.5	9.85671	157.693	+15	+3.357	0.00390	338.727
	12	440.5	9.85718	173.921	13	+3.364	0.00281	348.431
	22	450.5	9.85782	190,103	<del>-37</del>	+3.105	0.00163	358.185
Okt.	2	460.5	9.85858	206,220	<b>—50</b>	+2.602	0,00040	7.993
	12	470.5	9.85940	222,264	-47	+1.898	9.99915	17.858
	22	2432 480.5	9.86021	238.234	<u>-30</u>	+1.050	9.99791	27.780
Nov.	1	490.5	9.86094	254.137	- 4	+0.124	9.99673	37.757
	II	500.5	9,86155	269.990	+23	0.808	9.99565	47.787
103	21	510.5	9.86199	285.811	+43	-1.677	9.99469	57.864
Dez.	1	520.5	9.86223	301.620	+50	-2.418	9.99389	67.982
	11	2432 530.5	9.86224	317.435	+42	-2.975	9.99328	78.133
	21	540.5	9.86204	333.269	+22	-3.308	9.99287	88.308
	31	2432 550.5	9.86162	349.133	_ 5	-3.390	9.99267	98.497
1 13:19	12/2		လ	= 76°230	i = 3°3	194		
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	DAY D			m = 408	000		3	29 390

Mittleres	Äquino	ktium	1950.0
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8.25 3	610		747 1 0 0 1	O L C S A	rdainoi	Culum 19	750.0	5072/53	WHO SERVICE AND ADDRESS OF THE PERSON OF THE		
Oh Weltz		log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite	log r	Helioz. Länge	Red. a. d.Bahn	Helioz. Breite		
	30		MARS	947		JUPITER 1947					
194	7		0	in o°oor	0			in ocoos			
Jan.	-5	0.15737	278.504	+15	-1.403	0.734284	222.0427	-67	+1.1074		
	+5	0.15418	284.417	14	1.520	0.734141	222,8067	68	1.0980		
	15	0.15123	290.415	13	1.622	0.733997	223.5712	69	1.0885		
	25	0.14856	296.491	II	1.707	0.733848	224.3362	69	1.0787		
Febr.	4	0.14621	302.639	8	1.774	0.733696	225.1017	70	1.0688		
	14	0.14421	308.849	+ 5	<b>—1.820</b>	0.733540	225.8678	-71	+1.0586		
	24	0.14261	315.111	+ 2	1.846	0.733381	226,6345	71	1.0483		
März	6	0.14142	321.413	— I	1.849	0.733218	227.4017	72	1.0377		
	16	0.14067	327.744	4	1.830	0.733053	228.1695	72	1.0270		
	26	0.14036	334.090	7	1.788	0.732883	228.9378	73	1,0161		
April	5	0.14020	340.438	-10	-1.724	0.732711	229.7068	<b>—73</b>	+1.0049		
14 5 20	15	0.14011	346.774	12	1,640	0.732535	230.4764	74	0.9936		
	-25	0.14215	353.086	14	1.536	0.732356	231.2466	74	0.9821		
Mai	5	0.14362	359.361	15	1.414	0.732173	232.0175	7.4	0.9704		
	15	0.14548	5.587	15	1.276	0.731987	232.7890	74	0.9586		
	25	0.14771	11.755	-14	-1.125	0.731798	233.5611	<del>-74</del>	+0.9465		
Juni	4	0.15027	17.853	13	0.962	0.731607	234.3340	74	0.9343		
	14	0.15313	23.876	12	0.791	0.731412	235.1075	74	0.9219		
	24	0.15625	29.815	9	0.614	0.731213	235.8817	74	0.9093		
Juli	4	0.15958	35.667	7	0.432	0.731011	236.6566	74	0.8965		
	14	0.16307	41.427	- 4	-0.250	0.730807	237.4322	<del>-74</del>	+0.8835		
	24	0.16669	47.093	- 1	-0.067	0.730600	238,2086	74	0.8704		
Aug.	3	0.17041	52.664	+ 2	+0.112	0.730389	238.9857	74	0.8571		
	13	0.17416	58.140	5	0.288	0.730176	239.7635	73	0.8436		
	23	0.17793	63.523	7	0.458	0.729959	240.5421	73	0.8300		
Sept.	2	0.18168	68.813	+9	+0.622	0.729740	241.3215	<b>—73</b>	+0.8162		
	12	0.18537	74.013	II	0.777	0.729518	242.1017	72	0.8022		
	22	0.18899	79.127	13	0.924	0.729293	242.8827	72	0.7880		
Okt.	2	0.19249	84.158	14	1.061	0.729065	243.6645	71	0.7737		
	12	0.19587	89.110	15	1.188	0.728835	244.4471	70	0.7593		
	22	0.19909	93.988	+15	+1.304	0.728601	245.2306	<b>—70</b>	十0.7447		
Nov.	I	0.20215	98.797	15	1.410	0.728366	246.0149	69	0.7299		
	II	0.20502	103.541	14	1'.504	0.728127	246.8000	68	0.7150		
	21	0.20769	108.224	13	1.587	0.727886	247.5860	67	0.6999		
Dez.	I	0.21016	112.853	12	1.658	0.727642	248.3729	66	0.6847		
	11	0,21240	117.433	+10	+1.719	0.727396	249.1607	66	+0.6693		
ď	21	0.21441	121.968	8	1.767	0.727147	249.9493	65	0.6538		
	31	0.21619	126.464	+6	+1.805	0.726896	250.7389	63	+0.6381		
	-	က	= 49°172	i = 1	850	ಒ	= 99°9528	i = 1°3	3059		
	Yu S			T CONTRACTOR	1000		*	1 47-35			
	312		3 09	3 500	THE STATE		100	47-35			

7	Mittleres Äquinoktium 1950.0												
	0 <sup>h</sup> Weltzeit	Julian. Zeit	logr	Heliozentrische Länge	Red.auf die Bahn	Heliozentr. Breite							
1			SATURN	1947	VA TO S								
	New York	d			in 0:0001								
1946	Dez. 6	2432 160.5	0.958760	123.5999	+ 96	+0.4480							
1947	Jan. 15	200.5	0.959062	125.0690	109	0.5107							
	Febr. 24	240.5	0.959377	126.5359	121	0.5729							
	April 5	280.5	0.959703	128.0005	+133	+0.6346							
1600	Mai 15	320.5	0.960042	129.4629	145	0.6959							
	Juni 24	360.5	0.960392	130.9229	157	0.7565							
	Aug. 3	400.5	0.960754	132.3804	+168	+0.8166							
是他!	Sept. 12	440.5	0.961127	133.8355	178	0.8761							
	Okt. 22	480.5	0.961510	135.2880	189	0.9349							
1947	Dez. 1	520.5	0.961904	136.7378	198	0.9930							
1948	Jan. 10	2432 560.5	0.962308	138.1849	+207	+1.0503							
		(Ω = 113°	2251	903									
				3 50:									
			URANUS	1947									
725		d		0	in 0:001	0							
1946	Dez. 6	2432 160.5	1.28224	79.734	+ 1	+0.080							
1947	Jan. 15	200.5	1.28207	80.204	. 1	0.086							
	Febr. 24	240.5	1.28190	80.675	I	0.093							
	April 5	280.5	1.28172	81.145	+.1	+0.099							
	Mai 15	320.5	1.28155	81.617	I	0.105							
	Juni 24	360.5	1.28138	82,088	I	0.112							
	Aug. 3	400.5	1.28121	82.560	+ 1	+0.118							
	Sept. 12	440.5	1.28104	83.032	I	0.124							
	Okt. 22	480.5	1.28087	83.505	I	0.130							
1947	Dez. 1	520.5	1.28069	83.978	1	0.137							
1948	Jan. 10	2432 560.5	1.28052	84.451	+ I	+0.,143							
		Ω = 73°°	745	73 $m = \frac{1}{2280}$	59								
			NEPT	UN 1947									
		d			in 0:001								
1946	Dez. 6	2432 160.5	1.48121	188,803	+ 12	+1.498							
1947	Jan. 15	200.5	1.48122	189.040	12	1.502							
	Febr. 24	240.5	1.48123	189.276	12	1.506							
	April 5	280.5	1.48123	189.512	+ 12	+1.510							
000	Mai 15	320.5	1.48124	189.749	12	1.513							
7 30	Juni 24	360.5	1.48125	189.985	12	1.517							
	Aug. 3	400.5	1.48125	190.221	+ 12	+1.521							
	Sept. 12	440.5	1.48126	190.458	12	1.525							
	Okt. 22	480.5	1.48127	190.694	12	1.529							
1947	Dez. 1	520.5	1.48127	190.930	12	1.532							
1948	Jan. 10	2432 560.5	1.48128	191.167	+ 12	+1.536							

 $66 = 131°230 i = 1°775 m = \frac{1}{10'314}$ 

# Mittlere und Scheinbare Sternörter 1947

Reduktionsgrößen

DE LI											
Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o <sup>s</sup> ocor	Dekl. 1947.0	Jährl. Verände- rung 1947.5	Jährl. Eigen- bew. in o."cox		
905 1001 1002 1003	[2 Ceti] [45 G. Tucanae] [33 Piscium] [9 G. Ceti] α Andromedae	m 4.62 5.64 4.68 6.06 2.15	Ao Bg Ko Fo Aop	o i i i.533 o 2 i.227 o 2 37.313 o 4 7.456 o 5 38.539	+3.0729 +3.0463 +3.0708 +3.0700 +3.1017	+ 16 + 92 - 8 + 73 + 103	-17 37 51.42 -71 43 54.91 - 6 0 14.14 -23 24 7.03 +28 47 52.48	+20.041 +20.026 +20.139 +20.000 +19.878	- 2 - 16 + 97 - 40 - 159		
2	β Cassiopeiae ε Phoenicis [22 Andromedae] [x² Sculptoris] [θ Sculptoris]	2.42	F5	o 6 20.115	+3.2022	+ 675	+58 51 27.16	+19.857	- 178		
3		3.94	Ko	o 6 43.648	+3.0451	+ 126	-46 2 22.89	+19.864	- 170		
4		5.08	Fo	o 7 33.378	+3.1190	+ 3	+45 46 38.74	+20.035	+ 3		
5		5.56	Ko	o 8 53.089	+3.0463	+ 8	-28 5 41.29	+20.053	+ 25		
6		5.19	F5	o 9 2.501	+3.0485	+ 129	-35 25 46.37	+20.163	+ 136		
7 1004 1005 1006	γ Pegasi [χ Pegasi] [σ Andromedae] [Pi o <sup>n</sup> 38 Andr] ι Ceti	2.87 4.94 4.51 5.80 3.75	B 2 M 0 A 2 A 0 K 0	o 10 30.178 o 11 51.346 o 15 33.063 o 15 51.810 o 16 43.614	+3.0896 +3.1048 +3.1347 +3.1340 +3.0563	+ I + 65 - 56 + 47 - I2	+14 53 20.52 +19 54 43.49 +36 29 29.87 +31 13 23.36 - 9 7 3.10	+20.015 +20.021 +19.961 +19.999 +19.962	- 6 + 5 - 35 + 4 - 27		
10	ζ Tucanae	4.34	F 8	o 17 19.384	+3.1259	+2711	-65 II 9.86	+21.158	+1173		
1007	[-18° 41 Cetus]	6.88	K o	o 17 21.764	+3.0453	+ 50	-17 59 39.76	+19.994	+ 9		
1008	[41 Piscium]	5.58	K o	o 17 52.052	+3.0873	- 4	+ 7 53 45.86	+19.997	+ 15		
1009	[ρ Andromedae]	5.20	F 5	o 18 19.306	+3.1607	+ 49	+37 40 30.87	+19.945	- 34		
1010	[44 Piscium]	5.99	G 5	o 22 41.050	+3.0761	9	+ I 38 47.00	+19.935	- 10		
11	β Hydri α Phoenicis [Pi o <sup>n</sup> 78 Cetus] [48 Piscium] 12 Ceti	2.90	G o	o 22 59.968	+3.1560	+6900	-77 33 9.25	+20.270	+ 329		
12		2.44	K o	o 23 40.141	+2.9654	+ 190	-42 35 36.78	+19.552	- 384		
1011		7.54	M 3	o 25 19.158	+3.0450	+ 30	-11 57 6.53	+19.905	- 15		
1012		6.46	K 2	o 25 27.236	+3.1173	+ 11	+16 9 7.81	+19.908	- 11		
13		6.05	K 5	o 27 19.979	+3.0620	+ 6	- 4 14 59.57	+19.897	- 3		
14	[49 G. Ceti] [\(\lambda^1\) Phoenicis] [\(\ni\) Cassiopeiae] [77 G. Sculptoris] [58 G. Phoenicis]	5.23	A 3	o 27 43.744	+2.9992	- 19	-24 4 50.20	+19.918	+ 22		
15		4.88	A 2	o 28 51.901	+2.8939	+ 145	-49 5 46.80	+19.914	+ 30		
16		4.24	B 0	o 29 58.080	+3.4099	- 5	+62 38 22.61	+19.875	+ 3		
1013		5.62	K 0	o 31 3.862	+2.9674	- 21	-29 51 0.65	+19.826	- 32		
1014		5.55	F 5	o 31 56.803	+2.8538	+ 241	-52 39 56.53	+19.888	+ 39		
17	ζ Cassiopeiae π Andromedae [ε Andromedae] δ Andromedae α Cassiopeiae	3.72	B 3	0 34 0.284	+3.3432	+ 17	+53 36 19.96	+19.816	- 6		
18		4.47	B 3	0 34 2.573	+3.2050	+ 12	+33 25 40.32	+19.822	0		
19		4.52	G 5	0 35 44.901	+3.1709	- 176	+29 I 27.61	+19.552	- 247		
20		3.49	K 2	0 36 29.225	+3.2089	+ 104	+30 34 16.44	+19.701	- 88		
21		2.1-2.6	K o	0 37 29.079	+3.4051	+ 60	+56 I4 49.40	+19.747	- 28		
1015 1016 22 23 26	[μ Phoenicis] [Lac 181 Scul] β Ceti [η Phoenicis] [λ² Sculptoris]	4.65 7.21 2.24 4-53 5.97	Ko Mo Ko Ao Ko	0 38 49.469 0 40 3.700 0 40 55.784 0 40 58.755 0 41 38.499	+2.8341 +2.9006 +3.0113 +2.6968 +2.8997	- 26   - 18   + 165   + 4   + 201	-46 22 32.03 -36 18 45.98 -18 16 37.89 -57 45 12.15 -38 42 47.89	+19.767 +19.747 +19.763 +19.744 +19.839	+ 10 + 40 + 21		

191-1			1			5 3 000			1000
Special Control	10 中外的产品的	e	Ħ		Jährl.	Jährl.		Jährl.	Jährl.
Nr.	Name	Größe	Spektrum	AR. 1947.0	Verände-	Eigen- bew. in	Dekl. 1947.0	Verände-	Eigen- bew. in
	- 1/4	5	pe.		rung	0.000I		rung	0"001
VI LEA	100	SEVE	- 02		1947.5			1947.5	
		m	1734	h m s	5		0 / #		
25	o Cassiopeiae	4.70	B 2	0 41 45.617	+3.3440	+ 17	+47 59 40.88	+19.707	- 3
24	21 Cassiopeiae	5.7-6.1	A 2	0 42 6.506	+3.9612	- 53	+74 41 55.65	+19.685	- 20
1017	[70 G. Phoenicis]		A 5	0 42 26.929	+2.8360	<del>- 79</del>	<b>-42</b> 57 54.01	+19.600	_ IOO.
27	ζ Andromedae	4.30	Ко	0 44 31.421	+3.1806	<b>—</b> 75	+23 58 45.24	+19.589	<b>-</b> 76
1018	[79 G. Ceti]	5.45	В 9	0 45 23.736	+2.9686	+ 17	<b>—22 0 41.12</b>	+19.642	- 9
1019	[96 G. Piscium]	5.82	G 5	0 45 36.006	+3.1469	+ 505	+ 5 0 30.31	+18.506	-114 <b>1</b>
28	[8 Piscium]	4.55	K 5	0 45 55.771	+3.1129	+ 55	+ 7 17 49.16	+19.596	- 45
1020	[64 Piscium]	5.23	F 5	0 46 11.331	+3.1531	— 2	+16 39 17.50	+19.439	- 197
31	[λ Hydri]	4.96	K 5	0 46 45.508	+2.0831	+ 354	-75 12 42.13	+19.603	- 24
1021	[vAndromedae]	4.42	В 3	0 46 52.894	+3.3091	+ 15.	+40 47 26.37	+19.607	- 17
30	[φ² Ceti]	5.24	F 5	0 47 28.268	+3.0045	— I57	—10 55 45.65	+19.394	- 220
29	[Br 82 Cass]	5.45	F 2	0 47 29.344	+3.6403	+ 39	+63 57 34.07	+19.607	- 6
1022	[20 Ceti]	4.92	+A2 Ko	0 50 17.843	+3.0663	+ 3	- I 25 54.I4	+19.549	- r3
34	[\lambda^2 Tucanae]	5.34	Ко	0 53 1.924	+2.2417	+ 20	69 48 48.20	+19.472	- 36
32	γ Cassiopeiae	1.6-2.3	Вор	0 53 29.433	+3.6212	+ 28	+60 25 48.87	+19.496	- 2
370		100	1 1					15.00	1 00
33	μ Andromedae	3.94	A 2	0 53 48.164	+3.3308	+ 127	+38 12 44.42	+19.529	+ 37
1023	[68 Piscium]	5.64	Ko	0 54 57.630	+3.2473	+ 2 + 12	+28 42 21.97 -29 38 36.60	+19.453	- 7 + 7
35	α Sculptoris [98 G. Ceti]	4.39	B <sub>5</sub> Ko	0 56 3.198	+2.8902 +3.0386	(F-23) SY	- 6 to 2.96	+19.453	- 73
1024	[ror G. Ceti]	6.70	G <sub>5</sub>	0 56 4.603	+2.9775		-16 32 56.86	+19.310	- 7I
1025	10000 001000	Page 1	15 300		100000000000000000000000000000000000000	33	TO A STATE OF THE STATE OF	10.10 - 3.0	D. S. Paris
1027	[80 G. Phoenicis]	The second second	Ko	0 59 47.563	+2.5363	- 2	<b>-57 17 14.41</b>	+19.393	+ 29
1026	[	5.52	A 2	0 59 54.626	+2.8644	+ 57	<b>-31</b> 50 12.95	+19.378	+ 17
36	ε Piscium	4.45	Ко	1 0 11.356	+3.1141	- 54	+ 7 36 18.93	+19.384	+ 30
37	[26 Ceti]	6.18	Fo	1 1 5.199	+3.0877	+ 78	+ 1 4 59.53	+19.298	<del>- 36</del>
1028	[72 Piscium]	5.65	F 2	1 2 17.226	+3.1675	+ 4	+14 39 41.50	+19.365	+ 59 ·
1029	[106 G. Ceti]	6.29	G 5	I 3 33.748	+2.9063	- 19	<b>—24</b> 16 31.40	+19.234	<b>— 42</b>
1030	[µ Cassiopeiae]	5.26	G <sub>5</sub>	1 4 43.668	+3.9927	+3940	+54 39 40.04	+17.674	-1574
39	[t Tucanae]	5.32	Ko	1 5 12.991	+2.3767	+ 108	-62 3 28.54	+19.238	十 2
1031	υ Phoenicis	5.15	A 3	I 5 22.744	+2.7408	+ 35	-41 46 12.14	+19.237	+ 4
40	[η Ceti]	3.60	Ko	1 5 55.371	+3.0179	+ 147	—10 27 45.60	+19.090	- 128
42	β Andromedae	2.37	Mo	1 6 45.384	+3.3601	+ 146	+35 20 24.36	+19.086	- 112
41	[44 H. Cephei]	5.68	Ao	1 7 36.727	+5.1821	+ 326	+79 23 33.64	+19.177	+ 2
1032	[x Piscium]	4.89	Ко	1 8 35:958	+3.2252	+ 26	+20 45 12.27	+19.146	- 5
43	[τ Piscium]	4.70	Ko	1 8 44.049	+3.3048	+ 53	+29 48 31.73	+19.115	<b>— 32</b>
44	[102 G. Sculpt.]	5.91	A 5	1 10 19.012	+2.7632	+ 68	-38 8 12.73	+19.082	<b>— 24</b>
1033	[ζ Piscium pr]	5.57	A 5	1 10 57.528	+3.1349	+ 95	+ 7 17 44.19	+19.039	<b>—</b> 50
1034	[89 Piscium]	5.28	A 2	1 15 3.725	+3.0948	- 35	+ 3 20 9.34	+18.958	- 19
45	v Piscium	4.67	A 2	1 16 32.799	+3.2980	+ 16	+26 59 9.86	+18.925	- 9
1035	[\xi Andromedae]		Ko	1 19 12.511	+3.5332	+ 31	+45 15 6.19	+18.867	
1036	[109 G. Sculpt.]	5.82	K 5	1 21 3.062	+2.7921	- 5	-31 13 16.47	+18.765	1 - 37
· 图 · 市校		1000	1386			100 P		A* 47	

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o <sup>s</sup> ooor	Dekl. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o."co1
47 1037 46 48 1038	<ul> <li>θ Ceti</li> <li>[138 G. Ceti]</li> <li>[ψ Cassiopeiae]</li> <li>δ Cassiopeiae</li> <li>[9 G. Hydri]</li> <li>[94 Piscium]</li> </ul>	3.83 6.38 4.97 2.80 5.82	K o G 5 K o A 5 K 5	h m s 1 21 22.371 1 22 6.994 1 22 9.484 1 22 19.706 1 23 15.439	+2.9988 +3.0487 +4.2383 +3.9256 +2.0739	- 54 + 11 + 126 + 396 + 27	- 8° 27' 22.78 - 3 7 26.18 +67 51 15.19 +59 57 38.17 -64 38 40.78	+18.576 +18.743 +18.797 +18.716 +18.724 +18.660	-216 - 26 + 30 - 46 - 10
1039 1041 1040 49 1043	[47 Ceti] [ω Andromedae] [γ Phoenicis] [48 Ceti]	5.63 5.68 4.96 3.40 5.13	Fo F5 K5 Ao	1 23 49.577 1 24 14.605 1 24 28.351 1 26 3.941 1 27 3.578	+3.2407 +2.9606 +3.5892 +2.6050 +2.8780	+ 31 + 12 + 321 - 16 + 40	+18 57 58.95 -13 19 53.32 +45 8 1.76 -43 35 20.93 -21 54 10.55	+18.715 +18.595 +18.447 +18.622	$ \begin{array}{r} -57 \\ +12 \\ -100 \\ -198 \\ +9 \end{array} $
50 1044 53 1045	[38 Cassiopeiae]  n Piscium [8 Phoenicis] [14 G. Hydri] [v Andromedae]	5.95 3.72 3.96 6.06 4.18	F 5 G 5 K o G 5 G o	1 27 14.948 1 28 38.560 1 29 2.807 1 33 16.742 1 33 40.573	+4.4638 +3.2108 +2.4973 +0.4014 +3.5220	+ 263 + 18 + 137 - 74 - 153	+69 59 34.15 +15 4 23.58 -49 20 51.14 -78 46 24.85 +41 8 28.17	+18.537 +18.558 +18.710 +18.288 +18.012	$ \begin{array}{c c} -70 \\ -3 \\ +162 \\ -118 \\ -378 \end{array} $
51 1046 52 54 55	40 Cassiopeiae [π Piscium] 51 Andromedae α Eridani 43 Cassiopeiae	5.50 5.63 3.77 0.60 5.54	Ko Fo Ko B 5 Aop	1 34 14.029 1 34 17.084 1 34 43.581 1 35 44.585 1 38 23.028	+4.7926 +3.1810 +3.6837 +2.2347 +4.4439	- 36 - 46 + 66 + 127 + 86	+72 46 15.36 +11 52 16.30 +48 21 37.94 -57 30 19.52 +67 46 33.65	+18.360 +18.418 +18.245 +18.295 +18.219	- 10 + 48 -109 - 23 - 3
56. 1047 58 1048 1049	[ν Piscium] [+34° 297 Tria] [129 G. Sculpt.] [π Sculptoris] [175 G. Ceti]	4.68 5.45 5.64 5.28 5.27	K o B 8 A o K o G 5	1 38 40.186 1 38 59.147 1 39 42.794 1 39 45.068 1 40 2.610	+3.1226 +3.4685 +2.6434 +2.7068 +3.0340	- 17 + 38 - 39 - 62 - 1	+ 5 13 12.45 +34 58 43.93 -37 5 56.81 -32 35 36.53 - 3 57 23.25	+18.219 +18.171 +18.156 +18.159 +18.130	+ 7 - 30 - 19 - 15 - 32
57 59 60 61 1050	φ Persei τ Ceti ο Piscium ε Sculptoris [4 Arietis]	4.19 3.65 4.50 5.42 5.73	Вор Ко Ко <b>F</b> о <b>A</b> о	1 40 19.461 1 41 36.301 1 42 35.465 1 43 9.821 1 45 18.124	+3.7613 +2.7873 +3.1686 +2.8099 +3.2543	+ 26 -1192 + 48 + 117 + 34	+50 25 21.49 -16 12 57.36 + 8 53 30.37 -25 19 0.40 +16 41 32.71	+18.140 +18.963 +18.121 +17.993 +17.934	- 11 +859 + 54 - 52 - 30
1051 1052 62 64 63	[χ Ceti] [2 Persei] ζ Ceti α Trianguli ε Cassiopeiae	4.77 5.64 3.92 3.58 3.44	F o B 9 K o F 5 B 3	1 46 58.808 1 48 46.208 1 48 50.561 1 50 3.176 1 50 33.384	+2.9466 +3.8163 +2.9614 +3.4208 +4.3162	- 103 + 12 + 25 + 8 + 40	-10 56 52.23 +50 31 54.48 -10 35 46.08 +29 19 17.45 +63 24 36.64	+17.808 +17.804 +17.791 +17.544 +17.737	$ \begin{array}{r} -90 \\ -23 \\ -33 \\ -231 \\ -17 \end{array} $
65 67 66 <b>105</b> 3 69	$\xi$ Piscium $\psi$ Phoenicis $\beta$ Arietis $[\varphi$ Phoenicis] $[\eta^2$ Hydri]	4.84 4.41 2.72 5.00 4.72	Ko M3 A5 B9 Ko	1 50 48.518 1 51 31.361 1 51 42.394 1 52 10.086 1 53 35.351	+3.1064 +2.4051 +3.3147 +2.4885 +1.5205	+ 14 - 82 + 68 - 38 + 128	+ 2 55 36.13 -46 33 41.69 +20 32 59.23 -42 45 22.63 -67 54 27.04	+17.600	—108 — 18

									White - I
Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947.5	Jährl. Eigen- bew. in o <sup>s</sup> ocor	Dekl. 1947.0	Jährl. Verände- rung 1947.5	jährl. Eigen- bew. in o!'cor
68	χ Eridani	3.73	G5	i 53 53.817	+2.3349	+734	-51 52 19.39	+17.918	+301
72	α Hydri	3.02	Fo	i 57 6.012	+1.8907	+375	-61 49 37.63	+17.522	+ 40
71	υ Ceti	4.18	Mo	i 57 30.422	+2.8265	+ 93	-21 20 1.85	+17.449	- 16
1054	[4 Persei]	4.99	B8	i 58 45.329	+3.9959	+ 37	+54 13 56.80	+17.413	+ 3
79 73 1055 74 75 1056	50 Cassiopeiae γ Andromedae pr [v Fornacis] α Arietis β Trianguli [15 Arietis]	4.06 2.28 4.74 2.23 3.08 5.92	A 2 K o A o p K 2 A 5 M o	1 58 51.719 2 0 38.136 2 2 6.878 2 4 10.769 2 6 22.864 2 7 40.983	+5.1226 +3.6839 +2.6888 +3.3826 +3.5707 +3.3262	-104 + 44 + 4 +138 +119 + 62	+72 9 58.53 +42 4 35.22 -29 33 1.60 +23 12 45.96 +34 44 15.40 +19 15 4.65	+17.432 +17.281 +17.273 +17.027 +17.032 +16.987	+ 28 - 47 + 9 -144 - 38 - 23
77 1057 1058 76 78	[Br 299 Andr] [19 Arietis] [51 Ceti] 55 Cassiopeiae  µ Fornacis	5.40 5.99 4.54 6.15 5.24	Ko K5 G5 F5 +A2 A0	2 10 3.942 2 10 9.550 2 10 11.205 2 10 17.563 2 10 34.441	+3.9914 +3.2729 +3.1804 +4.7087 +2.6420	+366 + 66 - 16 - 23 + 14	+50 49 14.91 +15 1 56.68 + 8 35 56.72 +66 16 38.67 -30 58 17.89	+16.733 +16.878 +16.892 +16.888 +16.888	-166 - 17 - 2 0 + 12
1060	[135 G.Phoenicis] [21 Arietis] [7 Trianguli] 67 Ceti [\$\phi\$ Eridani]	5.86	K o	2 12 23.210	+2.4269	- 27	-41 24 46.55	+16.764	- 25
1059		5.64	F 5	2 12 41.957	+3.4045	- 66	+24 47 54.63	+16.697	- 78
79		4.07	A o	2 14 9.298	+3.5674	+ 35	+33 36 11.58	+16.660	- 44
80		5.70	G 5	2 14 20.272	+2.9929	+ 60	- 6 39 55.80	+16.590	105
82		3.78	B 8	2 14 36.960	+2.1434	+ 98	-51 45 24.50	+16.667	- 16
1062	[21 G. Fornacis] [9 Arietis] [232 G. Ceti] [62 Andromedae] [239 G. Ceti]	6.74	G 5	2 15 5.105	+2.5429	+139	-36 13 40.96	+16.720	+ 60
81		5.69	A 0	2 15 10.311	+3.3379	- 9	+19 39 25.19	+16.658	+ 3
1061		5.82	F 8	2 15 16.029	+3.1171	+243	+ 1 30 29.62	+17.032	+381
1063		5.12	A 0	2 15 50.844	+3.8720	- 57	+47 8 11.98	+16.620	- 2
1064		5.99	K 0	2 19 35.089	+2.8275	+ 12	-17 54 8.81	+16.386	- 51
83	[κ Fornacis] [δ Hydri] [κ Hydri] [ρ Ceti] [λ Horologii]	5·37	F 5	2 20 7.014	+2.7455	+147	-24 3 22.75	+16.356	- 55
1065		4.26	A 2	2 20 47.999	+1.0693	- 80	-68 54 0.75	+16.391	+ 13
1067		6.00	K 0	2 22 32.287	+0.3603	-187	-73 53 8.79	+16.301	+ 11
1066		4.90	A 0	2 23 23.258	+2.8982	- 12	-12 31 42.86	+16.242	- 3
84		5·47	F 2	2 23 24.889	+1.6777	- 95	-60 32 55.09	+16.119	-125
86	[ε Eridani] [12 Trianguli] ξ² Ceti [27 Arietis] [14 Trianguli]	4·44	B 5	2 25 2.553	+2.1994	+ 2I	-47 56 27.56	+16.159	- 1
1068		5·38	F 0	2 25 3.084	+3.5178	- 15	+29 26 2.00	+16.076	- 83
85		4·34	A 0	2 25 20.218	+3.1902	+ 25	+ 8 13 24.78	+16.142	- 2
1069		6·41	G 5	2 27 57.683	+3.3285	+ 22	+17 28 13.85	+15.927	- 81
1070		5·35	K 0	2 28 51.546	+3.6624	+ 37	+35 54 48.36	+15.979	+ 19
1071 88 90 87 1072	[σ Ceti]   [λ¹ Fornacis]   μ Hydri   36 H. Cassiop.   [ν Ceti]	4.82 5.88 5.29 5.34 5.04	F 5 Ko Ko G 5	2 29 34.416 2 30 54.380 2 32 44.699 2 32 56.592 2 33 5.342	+2.8433 +2.5013 -1.2687 +5.7032 +3.1488	- 52 - 19 +459 - 80 - 21	-15 28 34.90 -34 52 56.24 -79 20 27.06 +72 35 18.27 + 5 21 46.80	+15.805 +15.835 +15.718 +15.762 +15.713	-117 $-17$ $-36$ $+23$ $-21$

			B		Jährl.	Jährl,		Jährl.	Jährl.
Nr.	Name	Größe	Spektrum	AR. 1947.0	Verände- rung 1947-5	Eigen- bew. in o.ooo1	Dekl. 1947.0	Verände- rung 1947-5	Eigen- bew. in o."cor
1073	[268 G. Ceti]	m 5.92	Ko	h m s 2 33 10.233	+3.2906	+1210	+ 6°38′ 6.30	+17.192	+1463
1074	[80 Ceti]	5.71	K 5	2 33 23.370	+2.9533	- 25	- 8 3 40.09	+15.662	- 55
89	ν Arietis	5.36	A 2	2 35 48.037	+3.4073	- 9	+21 44 0.22	+15.572	- 13
91	δ Ceti	4.04	B 2	2 36 45.759	+3.0754	+ 7	+ 0 6 3.52	+15.536	+ 3
1075	[ı Eridani]	4.06	Ко	2 38 34.508	+2.3673	+ 115	<b>-40</b> 4 52.96	+15.407	- 25
95	[ε Hydri]	4.26	В 9	2 38 46.032	+0.9247	+ 170	-68 29 36.88	+15.438	+ 16
1076	[ζ Horologii]	5.26	F 2	2 39 0.644	+1.8679	+ 48	-54 46 34.16	+15.418	
92	[Br 366 Cass]	5.84	A 2	2 40 14-012	+5.1628	+ 23	+67 36 4.43	+15.308	
94	[35 Arietis]	4.58	В 3	2 40 20.085	+3.5214	+ 5	+27 28 58.42	+15.328	- 5
93	9 Persei	4.22	F 8	2 40 33.984	+4.0990	+ 344	+49 0 20.72	+15.236	<del>- 84</del>
1077	[14 Persei]	5.58	G 5	2 40 37.384	+3.9079	+ 3	+44 4 23.03	+15.311	<b>–</b> 6
97	π Ceti	4.39	B 5	2 41 35.906	+2.8554	<b>–</b> 6	<b>—14</b> 4 55.82	+15.251	— II
1078	[43 G. Fornacis]	6.87	Go	2 41 53.206	+2.6678	+ 123	-25 43 10.27	+15.307	+ 61
98	μ Ceti [η Persei]	4.36	F o K o	2 42 4.368 2 46 48.791	+3.2436	+ 190	+ 9 53 29.37	+15.205	— 30 — 10
99		3.95			+4.3778	5 No. 38	+55 40 37.67	+14.951	10000
100	41 Arietis	3.68	B 8	2 46 51.437	+3.5321	+ 49	+27 2 35.94	+14.846	— II3
101	β Fornacis	4.50	Ko B 5	2 46 52.311	+2.5112	+ 72	-32 37 39.17	+15.123	+ 163
1079	[σ Arietis] τ² Eridani	5.46 4.81	Ko	2 48 33.713 2 48 37.989	+3.3134  +2.7214	+ 22 - 36	+14 51 53.49 $-21$ 13 17.52	+14.837 +14.838	- 23 - 18
103	τ Persei	4.06	Go	2 50 29.098	+4.2550	+ 3	+52 32 49.63	+14.744	— 2
		JEST	HA5 Ko					130/10	100
104	η Eridani [40 G. Eridani]	4.05	A 2	2 53 50.166 2 53 57.858	+2.9312 +3.0079	+ 53 - 23	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	+14.333 +14.498	- 214 - 41
1081	[47 Arietis]	5.85	Fo	2 55 2.861	+3.4346	+ 165	+20 27 26.65	+14.445	- 28
1082	[24 Persei]	4.97	Ko	2 55 46.123	+3.7177	<b>— 42</b>	+34 58 19.52	+14.440	+ 10
106	9 Eridani pr	3.42	A 2	2 56 15.046	+2.2745	- 46	-40 30 58.16	+14.427	+ 26
1083	[λ Ceti]	4.69	B 5	2 56 52.214	+3.2159	+ r	+ 8 41 50.41	+14.353	- 10
105	47 H. Cephei	5.72	Mo	2 58 57.167	+7.9977	- 138	+79 12 43.64	+14.244	+ 11
107	α Ceti	2.82	Mo	2 59 30.341	+3.1366	- 6	+ 3 52 58.81	+14.128	- 73
1084	[-18° 516 Erid.]	7.40	Fo	2 59 36.354	+2.7575	- 17	-18 24 54.26	+14.174	- 22
1085	[τ³ Eridani]	4.16	A 3	3 0 3.243	+2.6453	- 105	-23 49 52.30	+14.121	- 47
108	γ Persei	3.08	F 5 + A 3	3 0 56.552	+4.3465	+ I	+53 18 1.95	+14.109	- 2
1086	[58 G. Eridani]	5.66	Ko	3 1 7.070	+2.0504	+ 18	<b>-47</b> 10 54.74	+14.116	+ 14
109	ρ Persei	3.2-4.1		3 1 46.259	+3.8455	+ 111	+38 38 10.91	+13.956	- 104
113	[9 Hydri]	5.52	B 8	3 2 7.921	+0.1259	+ 65	<del>-72</del> 6 33.67	+14.063	+ 23
110	μ Horologii	5.16	Fo	3 2 21.670	+1.4137	— ioi	-59 56 33·55	+13.973	— 5 <b>2</b>
III	β Persei	2.2-3.5	B 8	3 4 42.653	+3.9048	+ 6	+40 45 10.86		
1087	[63 G. Eridani]	7.16	Go	3 4 48.354	+2.8340	+ 6	-I3 57 39.58		
112	[t Persei]	4.17	Go	3 5 13.717	+4.3309	+1297	+49 24 45.44		
1088	[55 Arietis]	5.60	B 9	3 6 25.006	+3.6102	+ 15	+28 52 33.84		
114	δ Arietis	4.53	Ko	3 8 35.589	+3.4314	+ 107	+19 31 39.45	+13.625	1- 5

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o <sup>3</sup> 0001	Dekl. 1947.0	Jährl. Verände- rung 1947.5	Jährl. Eigen- bew. in o."oo1
116 118 1089 1090 1091 115 1092 1093	[94 Ceti] [38 G. Horologii] [\$\zeta\text{Trietis}\] 79 G. Fornacis [\$\zeta\text{Eridani}\] 48 H. Cephei [Lac 1044 Forn] [\$\zeta\text{Ceti}\]	5.14 5.72 4.95 6.85 4.90 5.50 6.89 4.96	F8 No Ao Go A3 Fo Ao	3 10 3.972 3 11 12.371 3 11 50.974 3 12 34.958 3 13 15.401 3 13 31.072 3 14 44.713 3 16 34.684	+3.0624 +1.5194 +3.4493 +2.3591 +2.9146 +7.6164 +2.4585 +3.1472	+ 131 + .11 - 19 + 24 - 4 + 196 + 14 + 178	- 1° 23′ 35.08 -57 31 9.63 +20 50 57.81 -35 45 14.08 - 9 0 55.52 +77 32 34.94 -31 32 43.60 + 3 10 37.66	+13.476 +13.479 +13.347 +13.384 +13.379 +13.251 +13.211 +13.208	- 59 + 17 - 72 + 12 + 51 - 55 - 19 + 98
1095 119 1094 1096 120 121 123	[ι Hydri] [82 G. Eridani] [τ Arietis] [Pi 3 <sup>h</sup> 27 Caml] α Persei ο Tauri [ξ Tauri]	5.53 4.30 5.17 5.55 1.90 3.80 3.75	F 2 G 5 B 3 K 2 F 5 G 5 B 8	3 17 14.284 3 17 48.655 3 18 9.708 3 20 2.910 3 20 31.598 3 21 57.437 3 24 17.571	-1.4936 +2.3959 +3.4646 +5.2090 +4.2846 +3.2292 +3.2521	+ 337 +2785 + 19 - 13 + 30 - 45 + 39	-77 34 56.85 -43 16 16.82 +20 57 26.50 +64 23 55.40 +49 40 27.56 + 8 50 37.41 + 9 32 57.63	+13.135 +13.781 +12.979 +12.881 +12.823 +12.678 +12.560	$\begin{array}{r} + 67 \\ +753 \\ - 25 \\ + 4 \\ - 22 \\ - 71 \\ - 32 \end{array}$
122 124 125 1097 126 1098	2 H.Camelopard.  [ $\sigma$ Persei] 5 Tauri  [17 Eridani] [ $\varkappa$ Reticuli]  [+34° 674 Pers]	4.44 4.55 4.28 4.80 4.80	B9P K0 K0 B9 F5	3 24 45.467 3 26 49.591 3 27 56.572 3 27 59.103 3 28 26.760 3 29 17.071	+4.8593 +4.2313 +3.3131 +2.9771 +1.0475 +3.8210	- 2 + 8 + 15 + 8 + 549 - 7	+59 45 27.43 +47 48 50.61 +12 45 23.28 - 5 15 20.07 -63 7 25.78 +35 16 59.18	+12.558 +12.442 +12.345 +12.352 +12.689 +12.252	o + 24 + 3 + 13 +381 + 4
127 128 1099 1100	ε Eridani [45 G. Horologii] [τ <sup>5</sup> Eridani] [20 Eridani] [10 Tauri]	3.81	Ko Ko B8 Aop	3 30 25.877 3 30 59.730 3 31 26.703 3 33 52.396 3 34 9.913	+2.8270 +1.7879 +2.6500 +2.7335 +3.0621	- 660 + 75 + 30 + 17 - 155	- 9 38 11.31 -50 33 27.74 -21 48 34.28 -17 38 28.86 + 0 14 5.25	+12.190 +12.218 +12.074 +11.924 +11.428	+ 21 + 87 - 25 - 5 -480
130 1102 129 1103	[110 G. Eridani] [\tau Fornacis] [Grb 716 Caml] [11 Tauri]  \delta Persei	4.58 6.08 5.3.2 6.15	Ko Ao Mo Ao	3 35 11.448 3 36 35.278 3 37 32.044 3 37 36.033 3 39 8.431	+2.1527 +2.4959 +5.2071 +3.5845 +4.2729	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	-40 26 51.07 -28 6 54.59 +63 2 49.69 +25 9 34.78 +47 37 11.78	+11.814 +11.764 +11.685 +11.655	- 23 + 27 + 17 - 10
133 135 134 136	[8 Fornacis] [8 Eridani] v Persei [17 Tauri] [24 Eridani]	3.10 4.93 3.72 3.93 3.81 5.09	B 5 K o F 5 B 5 p	3 40 8.320 3 40 42.425 3 41 35.063 3 41 43.370 3 41 48.805	+2.3862 +2.8747 +4.0773 +3.5635 +3.0477	- 63 - 8 + 15	-32 6 23.73 - 9 56 29.66 +42 24 46.48 +23 56 53.85 - 1 19 44.20	+11.504 +12.190 +11.380 +11.329 +11.360	+ 19 +746 o - 41
1104 141 139	[29 Tauri] β Reticuli η Tauri τ <sup>6</sup> Eridani	5.36 3.80 2.96 4.33	B 3 K o B 5 p F 8	3 42 51.266 3 43 31.654 3 44 19.725 3 44 33.975	+3.1883 +0.7521 +3.5672 +2.5813	+ 12 + 481 + 15 - 116	+ 5 53 7.78 -64 58 23.90 +23 56 34.11 -23 24 18.39	+11.284 +11.324 +11.138 +10.641	$ \begin{array}{c c} - & 5 \\ + & 82 \\ - & 44 \\ - & 524 \end{array} $

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o <sup>5</sup> 0001	Dekl. 1947.0	Jährl. Verände- rung 1947•5	Jährl. Eigen- bew. in o!'cor
138 142 143 146 1105 1106 1107 144 1108 147	γ Camelopard. [27 Tauri] 138 G. Eridani γ Hydri +57°, 752 Caml [Pi 3 <sup>h</sup> 187 Taur] [145 G. Eridani] ζ Persei [55 G. Horologii] ε Persei ξ Persei	2.91	A o B 8 K o M o A o F o B 9 B 1 K o B 1 O e 5	3 44 43.580 3 46 0.327 3 47 28.153 3 48 2.268 3 49 24.159 3 50 7.922 3 50 32.442 3 50 47.652 3 51 54.694 3 54 17.363 3 55 31.152	+6.3334 +3.5682 +2.2452 -0.9279 +4.8721 +3.4316 +2.9384 +3.7723 +1.8592 +4.0271 +3.8940	+ 38 + 13 - 43 + 130 + 106 + 100 - 5 + 7 + 29 + 18 + 4	+71 10 18.27 +23 53 34.59 -36 21 34.74 -74 24 6.49 +57 49 10.78 +17 10 14.68 -6 47 24.89 +31 43 40.43 -47 2 55.11 +39 51 31.19 +35 38 25.35	+11.112 +11.017 +10.910 +11.033 +10.712 +10.730 +10.729 +10.698 +10.596 +10.422 +10.355	- 38 - 43 - 43 + 120 - 98 - 27 + 1 - 10 - 30 - 26
149 1109 150	γ Eridani [17 G. Reticuli] λ Tauri [8 Reticuli]	3.19 6.14 3.8-4.1 4.41	K 5 F 2 B 3 M 0	3 55 33.287 3 57 34.430 3 57 44.410 3 57 54.087	+3.8946 +2.7996 +1.2885 +3.3246 +0.9498	+ 44 + 44 + 33 - 4 + 8	-13 39 28.85 -13 39 28.85 -57 15 7.56 +12 20 31.45 -61 32 57.97	+10.355 +10.247 +10.220 +10.179 +10.166	-108 + 16 - 11 - 13
1111 151 1114 1112 1113	[35 Eridani] v Tauri [63 G. Hydri] [37 Tauri] [\lambda Persei]	5.25 3.94 6.72 4.50 4.33	B 5 A 0 A 0 K 0 A 0	3 58 50.721 4 0 20.008 4 I 1.539 4 I 33.425 4 2 37.504	+3.0405 +3.1919 -0.3511 +3.5478 +4.4708	+ ,14 + 1 + 57 + 66 - 10	- 1 41 48.36 + 5 50 37.53 -71 18 50.10 +21 56 19.54 +50 12 33.92	+10.095 + 9.995 + 9.984 + 9.847 + 9.783	- 12 + 1 + 41 - 54 - 36
153 152 1115 1116 154	174 G. Eridani 48 Persei [43 Tauri] [44 Tauri] o <sup>1</sup> Eridani	5.57 4.03 5.67 5.55 4.14	A 5 B 3 P G 5 F 0 F 2	4 3 26.281 4 4 48.246 4 6 4.444 4 7 35.891 4 9 16.560	+2.4733 +4.3569 +3.4961 +3.6548 +2.9291	+153 + 24 + 76 - 22 + 6	-27 47 44.23 +47 34 22.94 +19 28 14.59 +26 20 39.54 - 6 58 27.79	+ 9.863 + 9.625 + 9.527 + 9.402 + 9.394	+105 - 27 - 29 - 36 + 86
1117 155 1118 156 157	[μ Persei] α Horologii [μ Tauri] α Reticuli [γ Doradus]	4.28 3.83 4.32 3.36 4.36	G o K o B 3 G 5 F 5	4 10 59.789 4 12 14.601 4 12 39.184 4 13 44.205 4 14 38.122	+4.4063 +1.9878 +3.2585 +0.7732 +1.5721	+ 8 + 32 + 15 + 61 +107	+48 16 36.12 -42 25 26.68 + 8 45 40.11 -62 36 21.91 -51 37 10.07	+ 9.156 + 8.875 + 9.027 + 9.016 + 9.084	- 18 -204 - 19 + 53 +192
159 158 1119 161 162	[γ Tauri] [54 Persei] [208 G. Eridani] [212 G. Eridani] δ Tauri		Ko G5 B9 Ao Ko	4 16 46.411 4 16 57.779 4 17 45.013 4 18 20.199 4 19 52.470	+3.4150 +3.8965 +2.7164 +2.6176 +3.4608	+ 81 - 20 + 16 + 19 + 76	+15 30 4.52 +34 26 26.07 -16 33 46.87 -20 45 53.35 +17 25 11.46	+ 8.700 + 8.701 + 8.643 + 8.592 + 8.451	$ \begin{array}{rrr}  - 23 \\  - 6 \\  - 4 \\  - 8 \\  - 27 \end{array} $
1120 163 166 1121 1122	[ξ Eridani] [η Reticuli] [δ Mensae] [43 Eridani] [+69° 258 Caml]	5.23 5.18 5.62 4.06 7.02	A 2 Ko Kop K5 Ko	4 21 2.344 4 21 18.611 4 21 30.544 4 22 2.629 4 24 16.397	+2.9877 +0.6495 -4.0488 +2.2534 +6.3011		- 3 51 59.84 -63 30 42.66 -80 20 23.74 -34 8 19.65 +69 15 44.98	+ 8.421 + 8.361	+ 69 + 54

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947.5	Jährl. Eigen- bew. in o <sup>s</sup> oooi	Dekl. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o."oor
164 1123 165 167 1124 1125	E Tauri [Br 615 Taur] [1 Camelop. sq] [8 Caeli] [57 Persei] [6 Tauri]	3.63 5.50 5.86 5.16 6.07	Ko B8 B1 B3 F0	h m s 4 25 31.076 4 25 47.570 4 27 49.298 4 29 12.593 4 29 40.728 4 30 50.220	+3.5040 +3.1012 +4.7532 +1.8378 +4.2225 +3.4052	+ 77 + 9 0 + 1 + 6 + 68	+19 3 52.45 +1 15 53.14 +53 47 52.47 -45 3 59.62 +42 57 9.84 +14 44 4.75	+7.994 +7.987 +7.842 +7.734 +7.697	- 34 - 20 - 1 + 2 + 4 - 23
171	α Doradus	3.47	A op	4 32 50.894	+1.2969	+ 57	-55 9 13.85	+7.443	+ 5
168	α Tauri	1.06	K 5	4 32 52.574	+3.4432	+ 47	+16 24 15.78	+7.247	-188
170	[υ² Eridani]	3.88	K o	4 33 29.304	+2.3327	- 39	-30 40 10.99	+7.376	- 10
169	ν Eridani	4.12	B 2	4 33 40.110	+2.9983	+ 2	- 3 27 33.69	+7.368	- 2
172	53 Eridani	3.98	K o	4 35 45.095	+2.7482	- 48	-14 24 22.74	+7.040	-161
1127	[258 G. Eridani]	5.59	K o	4 37 54.473	+2.4962	- 45	-24 35 5.36	+7.043	+ 18
1126	[Pi 4 <sup>b</sup> 148 Taur]	5.68	A o	4 38 0.447	+3.7560	+ 28	+28 30 50.68	+6.984	- 32
1129	[α Caeli]	4.52	F 2	4 38 51.106	+1.9324	138	-41 57 50.45	+6.871	- 77
174	τ Tauri	4.33	B 5	4 39 3.601	+3.6017	- 1	+22 51 25.28	+6.915	- 15
1128	[Grb 866 Pers] [β Caeli] [56 Eridani] Grb 848 Caml [μ Eridani]	5.77	B 8	4 39 19.393	+4.5613	- 2	+49 52 28.93	+6.889	- 19
1130		5.08	F 5	4 40 10.890	+2.1213	+ 30	-37 14 48.33	+7.038	+199
1131		5.87	B 5	4 41 32.378	+2.8826	- 3	- 8 36 4.04	+6.726	o
173		6.04	F 0	4 41 39.833	+8.0772	+103	+75 50 55.08	+6.577	135
176		4.18	B 5	4 42 50.996	+3.0003	+ 9	- 3 21 1.09	+6.609	10
175	4 Camelopard.  [ $\mu$ Mensae]  [268 G. Eridani]  [Br 658 Pers]  [ $\pi^3$ Orionis]	5·35	A 2	4 43 34·73 <sup>2</sup>	+4.9994	+ 65	+56 39 55.91	+6.411	-145
177		5.69	B 9	4 43 35·057	-0.5973	+ 20	-71 1 42.61	+6.594	+ 34
1132		5·97	A 2	4 44 18·703	+2.3961	+ 1	-28 10 55.76	+6.514	+ 16
1133		5.10	K 2	4 46 20·268	+4.0394	- 30	+37 23 48.08	+6.368	+ 39
1134		3·31	F 8	4 46 57·625	+3.2573	+312	+ 6 52 13.46	+6.296	+ 19
1135 179 178 1136 180	[97 Tauri] $[\pi^4 \text{ Orionis}]$ $\alpha \text{ Camelopard.}$ $[0^1 \text{ Orionis}]$ $\pi^5 \text{ Orionis}$	5.12 3.78 4.38 5.19 3.87	F o B 3 B o M o B 3	4 48 16.220 4 48 22.838 4 48 45.905 4 49 31.865 4 51 29.283	+3.5105 +3.1959 +5.9656 +3.3943 +3.1255	+ 57 - 2 + 3 - 3 - 3	+18 45 4.99 + 5 30 57.90 +66 15 20.37 +14 9 50.26 + 2 21 19.67	+6.135 +6.162 +6.135 +6.008 +5.903	- 34 + 3 + 9 - 56 + 3
181 1138 183 182 1137	ι Aurigae [η Mensae] ε Aurigae β Camelopard. [ζ Aurigae]	2.90 5.28 3.1-3.8 4.22 4.9-5.6	K2 Ko F5p Gop Ko +B1	4 53 32.263 4 56 41.690 4 58 9.622 4 58 41.591 4 58 46.101	+3.9078 -1.7234 +4.3063 +5.3381 +4.1946	+ 3 + 71 + 4 - 6 + 10	+33 5 2.82 -75 I 9.27 +43 44 49.30 +60 22 2.82 +4I 0 2.03	+5.710 +5.526 +5.334 +5.280 +5.267	- 18 + 59 - 6 - 14 - 22
184	ι Tauri [26 G. Caeli] [11 Orionis] η Aurigae ε Leporis	4.70	A 5	4 59 55.463	+3.5867	+ 47	+21 30 57.85	+5.151	- 40
1139		6.00	K 0	5 0 22.361	+2.2704	- 8	-31 50 50.23	+5.237	+ 83
1140		4.65	B 9	5 1 32.262	+3.4289	+ 11	+15 19 55.09	+5.021	- 34
185		3.28	B 3	5 2 47.588	+4.2081	+ 27	+41 9 53.82	+4.882	- 66
186		3.29	K 5	5 3 12.958	+2.5401	+ 18	-22 26 27.27	+4.845	- 69

157			4		Tähul			Tähal	
		ße	Spektrum	Apply	Jährl. Verände-	Jährl. Eigen-		Jährl. Verände-	Jährl. Eigen-
Nr.	Name	Größe	it.	AR. 1947.0		bew. in	Dekl. 1947.0	many - 1	bew. in
			Spe		rung 1947.5	0.000I		rung 1947-5	0"001
		-			1947.3			1947.5	1000
187	[η² Pictoris]	m 4.92	К 5	h m s	+1.5534	+ 55	-49° 38′ 55.99	+4.882	0
189	[ζ Doradus]	4.76	F 8	5 3 35.446 5 4 35.914	+1.0282	- 55 - 52	-57 32 40.34	+4.916	+118
188	β Eridani	2.92	A 3	5 5 14.526	+2.9497	-64	-5912.34	+4.664	<b>—</b> 77
1143	[13 G. Pictoris]	7.10	Ao	5 5 51.610	1.7817	+ 25	-44 53 23.60	+4.715	+ 25
1142	[16 Orionis]	5.42	A 2	5 6 24.541	+3.3010	+ 41	+ 9 45 47.35	+4.639	-3
	[+27°732 Taur pr]			1 - 1 P 3 T 1		F 15 15 15 15 15 15 15 15 15 15 15 15 15			<b>-</b> 66
1141	$[\lambda \text{ Eridani}]$	5.97	A 3 B 2	5 6 25.223 5 6 36.490	+3.7677 +2.8716	+ 43	+27 57 53.91	+4.574	
190	μ Aurigae	4.34	A 3		+4.1061	+ I	-84914.14 $+382525.37$	+4.622	$\begin{bmatrix} - & 3 \\ - & 78 \end{bmatrix}$
192	μ Leporis]	4.78 3.30	Aop	5 9 47.831 5 10 32.942	+2.6952	-17 + 28	-16 16 0.84	+4.274 +4.262	$-\frac{78}{-28}$
194	β Orionis	0.34	B8p	5 11 59.351	+2.8836	+ 2	- 8 15 41.09	+4.166	— r
1 100 LT		taling.			12 75		ETALL BETTER		10 1 - Tak
193.	α Aurigae	0.21	Go	5 12 46.176	+4.4332	+- 81	+45 56 47.08	+3.675	-423
191	19 H. Camelop.	5.24	F 8	5 13 46.913	+9.8915	-292	+79 10 30.86	+4.165	+159
196	9 Doradus	4.78	Ko	5 13 47.475	-0.0469	+ 10	-67 14 42.05	+4.049	+ 35
195	[\tau Orionis]	3.68	B 5	5 15 1.867	+2.9135	— II	- 6 54 0.74	+3.898	<b>- 8</b>
1145	[λ Aurigae]	4.85	Go	5 15 24.553	+4.2212	+458	+40 3 14.81	+3.209	-663
197	[o Columbae]	4.91	Ko	5 15 34.293	+2.1639	+ 69	$-34\ 56\ 45.52$	+3.522	-338
1146	[λ Leporis]	4.29	Ві	5 17 7.912	+2.7644	<b>— 2</b>	-13 13 48.32	+3.723	- 2
198	[12 G. Columbae]		Ao	5 17 16.878	+2.3925	+ 5	-27 25 19.41	+3.708	<b>—</b> 4
199	[ζ Pictoris]	5.52	F 8	5 18 3.939	+1.4711	+ 10	<b>-50 39 43.67</b>	+3.880	+234
1147	[22 Orionis]	4.65	В 3	5 19 3.285	+3.0631	<b>—</b> 2	- o 25 59.7I	+3.558	— І
201	γ Orionis	1.70	B 2	5 22 17.183	+3.2182	- 6	+ 6 18 11.80	+3.266	- 15
202	β Tauri	1.78	B 8	5 22 56.337	+3.7932	+ 20	+28 33 52.58	+3.049	<b>—175</b>
1148	[115 Tauri]	5.31	В 3	5 24 4.435	+3.5004	+ 4	+17 55 6.17	+3.103	- 24
203	17 Camelopard.	5.75	K 5	5 25 9.403	+5.6677	- 7	+63 1 33.12	+3.029	<b>— 2</b>
1149	[18 G. Columbae]	5.85	A 2	5 25 23.103	+1.9246	<b>–</b> 8	<b>-40</b> 59 18.12	+3.109	+ 95
204	[β Leporis] ·	2.96	Go	5 25 58.396	+2.5713	+ I	-20 48 1.58	+2.871	— 9I
1150	[18 Camelopard.]		Go	5 28 1.135	+5.1400	+146	+57 11 10.80	+2.566	-218
1152	[20 G. Pictoris]	5.54	G 5	5 28 41.922	+1.6494	+ 14	<b>-47</b> 6 53.49	+2.601	-127
1151	[x Aurigae]	4.88	Ві	5 29 16.529	+3.9057	0	+32 9 17.47	+2.673	- 3
206	δ Orionis	2.48	Во	5 29 17.826	+3.0654	0	- o 20 12,29	+2.676	+ I
207	α Leporis	2.69	Fo	5 30 23.470	+2.6465	+ 2	—17 51 31.81	+2.584	+ 4
208	[φ¹ Orionis]	4.53	Во	5 31 54.533	+3.2940	— I	+ 9 27 19.35	+2.446	- 2
205	Grb 966 Caml	6.36	K 5	5 32 37.441	+8.0272	- 20	+75 0 46.37	+2.408	+ 26
209	ι Orionis	2.89		5 32 50.332	+2.9352	+ 1	- 5 56 35.18	+2.372	+ 4
212	β Doradus	4.2-5.7			+0.5203	- 11	-62 3I 27.I6	+2.350	+ 9
210	ε Orionis	1.75	Во	5 33 31.346	+3.0446	0	— I 14 3.04	+2.309	+ 1
214	[\gamma Mensae]	5.06	Ko	5 33 58.324	-2.3748	+308	-76 22 47.56		+294
211	ζ Tauri	3.00	Взр	5 34 28.506	+3.5860	+ 1	+21 6 43.32		- 22
1153	[35 G. Columbae]	6.75	K 2	5 36 0.258	+2.3899	+ 8	-27 14 25.21		- 9
215	α Columbae	2.75		5 37 43.693	+2.1730		-34 6 4·35		- 26
			STATE OF STA	. 5 0. 10 70	1 5 1 1 5 5 6	3,542516		10 00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947·5	Jährl. Eigen- bew. in o <sup>§</sup> 0001	Dekl. 1947.0	Jährl. Verände- rung 1947.5	Jährl. Eigen- bew. in o."oo1
216 217 218 219 1154 220 1155 221 1156 222 223	o Aurigae [γ Leporis] [130 Tauri] ζ Leporis [δ Doradus] ω Orionis [142 G. Orionis] [ν Aurigae] [γ Pictoris] [δ Leporis]	m 5.52 3.80 5.51 3.67 4.52 2.20 5.95 4.18 4.38 3.90 3.22	A o F 8 F o A 2 A 5 B o G 5 K o K o K o	5 41 47.487 5 42 15.168 5 44 20.658 5 44 33.150 5 44 40.583 5 45 14.490 5 45 56.819 5 47 48.863 5 48 51.721 5 49 2.471 5 49 5.374	+4.6487 +2.5018 +3.4985 +2.7188 +0.1078 +2.8458 +2.9811 +4.1584 +1.0895 +2.5807 +2.1150	- 10 -206 - 4 - 12 - 51 + 2 + 37 - 5 + 84 + 167 + 39	+49 48 19.68 -22 27 51.75 +17 42 39.60 -14 50 25.36 -65 45 19.23 - 9 41 13.28 - 4 6 26.86 +39 8 6.30 -56 10 45.00 -20 52 56.12 -35 47 13.61	+1.584 +1.78 +1.357 +1.343 +1.346 +1.284 +1.024 +1.069 +0.910 +0.307 +1.357	- 3 -371 - 8 - 5 + 7 - 4 -202 + 7 - 63 -649 +404
1159 1158 1157 224	[37 G. Pictoris] [136 Tauri] [E Aurigae]  \$\alpha\$ Orionis	4.98 4.54 4.92 0.1–1.2	Ко Ао А2 Мо	5 49 41.205 5 49 59.674 5 50 24.111 5 52 18.076	+1.3578 +3.7716 +5.0284 +3.2485	+ 5 + 4 - 17 + 19	-52 7 13.23 +27 36 5.89 +55 41 49.97 + 7 23 55.97	+0.821 +0.858 +0.856 +0.682	- 79 - 14 + 20 + 11
226 225 227 1160 1161	[η Leporis] δ Aurigae β Aurigae [γ Columbae] [6ο. Orionis]	3.77 3.88 2.07 4.36 5.25	Fo Ko Aop B3 Ao	5 53 59·37 <sup>2</sup> 5 55 9·70 <sup>1</sup> 5 55 38·38 <sup>3</sup> 5 55 39·39 <sup>0</sup> 5 56 5·977	+2.7330 +4.9407 +4.4015 +2.1275 +3.0850	- 29 + 97 - 50 - 2 - 10	-14 10 33.61 +54 16 59.29 +44 56 39.50 -35 17 16.23 + 0 32 58.68	+0.661 +0.293 +0.376 +0.387 +0.339	+138 -127 - 3 + 9 + 1
229 1163 230 231	+33° 1209 Auri η Columbae [1 Geminorum] [66 Orionis] [1 G. Puppis]	6.80 4.03 4.30 5.70 6.22	A 2 K o G 5 K o F 8	5 56 45.241 5 57 31.365 6 0 53.838 6 2 10.242 6 2 56.791	+3.9444 +1.8365 +3.6474 +3.1700 +1.7267	- 9 + 13 - 4 - 4 - 88	+33 8 6.23 -42 49 1.98 +23 16 4.94 + 4 9 47.74 -45 2 7.51	+0.287 +0.198 -0.185 -0.199 -0.012	+ 6 - 17 -104 - 7 +247
232 1165 233 1166	[74 G. Columbae] v Orionis [94 G. Leporis] [36 Camelopard.] [v Doradus]	4.40 5.46	A o B 2 A o K o B 9	6 4 3.014 6 4 32.676 6 6 44.139 6 7 31.177 6 9 4.713	+2.3102 +3.4259 +2.5231 +6.0365 -0.3843	+ 6 + 3 + 9 + 12 - 95	-29 45 5.39 +14 46 35.50 -22 24 59.89 +65 43 55.55 -68 49 55.80	-0.396 -0.423 -0.627 -0.690 -0.771	- 40 - 23 - 36 - 29 + 22
235 239 1168 1167 234	[δ Pictoris] [α Mensae]  μ Aurigae [Br 904 Auri sq]  22 H. Camelop.	4.84 5.14 4.45 6.42 4.73	B I K o K o F o A o	6 9 15.861 6 11 49.328 6 12 0.011 6 12 4.682 6 13 0.533	+1.1677 -1.7862 +3.8233 +4.0433 +6.6123	+ 8	-54 57 21.85 -74 44 8.91 +29 31 10.24 +36 9 59.46 +69 20 30.98	-0.798 -1.248 -1.317 -1.051 -1.245	+ 13 -215 -265 + 8 -103
238 237 1170 240	[74 Orionis] [x Columbae] [2 Lyncis] [7 Monocerotis]  C Canis maj.	5.11 4.51 4.42 5.13 3.10	F 5 K 0 A 0 B 3 B 3	6 13 27.987 6 14 39.862 6 14 56.842 6 17 9.543 6 18 16.635	+3.3692 +2.1339 +5.2939 +2.8903 +2.3035	+ 54 - 14 - 12 - 4 + 5	+12 17 19.09 -35 7 18.36 +59 1 57.92 - 7 47 57.16 -30 2 18.96	-0.993 -1.200 -1.290 -1.501 -1.594	+186 + 84 + 20 + 1 + 5

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o.ooor	Dekl. 1947.0	Jährl. Verände- rung 1947.5	Jährl. Eigen- bew. in o."oor
24I 243	μ Geminorum β Canis maj.	m 3.19 1.99	Мо Вт	6 19 45.211 6 20 21.874	+ 3.6298 + 2.6423	40 4	+22 32 33.46 -17 55 41.92	—1 <sup>"</sup> .840 —1.784	- 112 - 4
242	ψ <sup>1</sup> Aurigae	5.10	K <sub>2</sub>	6 20 49.020	+ 4.6212	+ I	+49 19 2.21	-1.826 $-1.822$ $-1.937$	- 4
244	8 ε Monocerotis	4.48	A <sub>5</sub>	6 20 57.521	+ 3.1795	- I2	+ 4 37 17.14		+ 11
1171	[23 G. Canis maj.]	5.39	Ko	6 21 41.929	+ 2.7990	- 35	-11 30 0.72		- 40
1172	[Grb 1156 Auri] α Carinae 10 Monocerotis [ν Geminorum] [13 Monocerotis]	7.14	G 5	6 22 35.323	+ 4.2701	0	+41 59 27.49	-1.986	- II
245		-0.86	F 0	6 22 46.472	+ 1.3324	+ 24	-52 39 57.35	-1.964	+ 25
246		4.98	B 3	6 25 20.460	+ 2.9627	- 6	- 4 43 40.16	-2.209	+ 4
1173		4.06	B 5	6 25 48.941	+ 3.5625	- 4	+20 14 50.81	-2.274	- I8
1174		4.50	A o p	6 30 2.231	+ 3.2445	- 2	+ 7 22 24.27	-2.629	- 7
1175	[56 G. Monocer.]	5.02	B3	6 30 56.408	+ 3.0451	- 9	- 1 10 42.60	-2.724	- 24
249	ξ² Canis maj.	4.54	Ao	6 32 50.022	+ 2.5146	+ 6	-22 55 17.52	-2.849	+ 14
247	8 Lyncis	6.05	Go	6 32 51.028	+ 5.4829	-289	+61 31 49.80	-3.145	- 279
251	γ Geminorum	1.93	Ao	6 34 39.004	+ 3.4662	+ 30	+16 26 46.52	-3.066	- 44
250	51 Aurigae	5.71	Ko	6 34 59.213	+ 4.1572	- 22	+39 26 22.52	-3.165	- 115
252	v Puppis	3.18	B 8	6 36 8.282	+ 1.8356	$     \begin{array}{r}         -7 \\         -310 \\         -5 \\         -80 \\         -373     \end{array} $	-43 8 54.34	-3.150	- I
248	23 H. Camelop.	5.60	F 8	6 37 13.606	+10.2451		+79 37 37.75	-3.855	- 608
254	ε Geminorum	3.18	G 5	6 40 40.286	+ 3.6912		+25 II 7.56	-3.556	- 15
256	ξ Geminorum	3.40	F 5	6 42 18.863	+ 3.3673		+12 57 15.86	-3.877	- 195
257	*α Canis maj.	-1.58	A 0	6 42 48.798	+ 2.6434		-16 38 31.58	-4.935	-1211
255 1176 1177 264 258	[ψ <sup>5</sup> Aurigae] [ψ <sup>6</sup> Aurigae] 16 Monocerotis [ζ Mensae] 18 Monocerotis	5·34 5·28 5·84 5·64 4·70	Go Ko B 3 A 2 Ko	6 42 55.232 6 43 37.258 6 43 38.948 6 44 29.646 6 45 5.787	+ 4.3246 + 4.5740 + 3.2720 - 4.9892 + 3.1283	- I - 4 - 7 - 23 - 14	+43 37 56.45 +48 50 52.06 + 8 38 41.63 -80 45 36.59 + 2 28 18.24	$ \begin{array}{r} -3.572 \\ -3.790 \\ -3.805 \\ -3.804 \\ -3.934 \end{array} $	+ 162 + 5 - 8 + 59 - 13
1178	[3τ G. Puppis] [8ο G. Monocer.] α Pictoris [μ Canis maj.] [43 Camelopard.]	5.25	B 9	6 45 32.446	+ 2.0527	- 19	-37 52 12.52	-3.974	- 16
1179		5.65	A 0	6 46 36.182	+ 3.0216	- 11	- 2 12 38.20	-4.045	+ 4
262		3.30	A 5	6 47 38.854	+ 0.6155	-108	-61 53 2.53	-3.868	+ 269
1180		3.78	B 2 p	6 47 51.589	+ 2.2412	- 10	-32 26 45.97	-4.153	+ 4
259		5.13	B 5	6 47 59.999	+ 6.4697	+ 2	+68 57 11.19	-4.167	+ 4
263	[\tau Puppis]  \text{3 Geminorum}  \text{3 Canis maj.}  [\tau Volantis]	2.83	K o	6 48 37.177	+ 1.4884	+ 26	-50 33 2.47	-4.294	- 72
261		3.64	A 2	6 49 17.809	+ 3.9544	- 1	+34 I 37.56	-4.333	- 52
266		4.25	K 2	6 51 43.594	+ 2.7876	- 95	-II 58 I5.06	-4.502	- 14
267		5.52	B 8	6 52 3.703	- 0.6870	- 10	-70 53 51.85	-4.494	+ 20
260 268 1181 1182 1183 270	24 H. Camelop.  ε Canis maj.  [ror G. Monoc.]  [ω Geminorum]  [σ Canis maj.]  [ο² Canis maj.]	4.75 1.63 5.84 5.21 3.68 3.12	K5 B1 A0 K0 K5	6 52 22.004 6 56 32.521 6 57 50.874 6 59 11.057 6 59 36.413 7 0 48.633	+ 8.7529 + 2.3584 + 2.8823 + 3.6556 + 2.3904	- 4	+77 2 57.46 -28 53 55.54 - 8 19 54.03 +24 17 34.01 -27 51 27.93 -23 45 16.63	-4.557 -4.894 -5.017 -5.124 -5.155 -5.256	- I2 + 2 - I0 - 3 + I + 2

Nr. 257. Ort des Schwerpunktes. Die Reduktion auf den Hauptstern ist nach den Elementen von Volet, Bull. Astr. II, Bd. 7, 1931:

1947.0  $\Delta \alpha = +0.010$ 1948.0 = -0.010  $\Delta \delta = +1.709$ = +1.16

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o <sup>S</sup> ocor	Dekl. 1947.0	Jährl. Verände- rung 1947.5	Jährl. Eigen- bew. in o."001	
269 271 1184 272 1185 273 1186 274 1187	ζ Geminorum γ Canis maj. [C Puppis] [27 G. Carinae] [2 G. Canis min.] δ Canis maj. [20 Monocerotis] 63 Aurigae [22 δ Monocerot.]	m m 3.7-4.1 4.07 5.26 5.30 5.92 1.98 5.02 5.07 4.09	Gop B5 A2 A0 K0 F8p K0 K2	7 0 57.951 7 1 21.587 7 2 21.874 7 3 18.997 7 4 57.534 7 6 14.122 7 7 35.695 7 8 0.728 7 9 9.428	+3.5584 +2.7147 +1.9018 +1.1173 +3.2431 +2.4397 +2.9803 +4.1266 +3.0639	- 7 + 1 - 20 - 12 - 3 - 3 - 1 + 36 - 3	+20 38 59.29 -15 33 12.92 -42 15 28.91 -56 40 7.06 + 7 33 21.58 -26 18 28.14 - 4 9 10.46 +39 24 32.27 - 0 24 12.49	-5.274 -5.313 -5.321 -5.466 -5.643 -5.709 -5.613 -5.866 -5.952	- 3 - 9 + 67 + 2 - 36 + 5 + 215 - 2 + 6	
1189 1188 275 1190 276 277	[7 <sup>2</sup> Volantis] [51 Geminorum] [I Puppis] [Grb 1281 Lynx] [64 Aurigae]  \(\lambda\) Geminorum	3.87 5.31 4.47 5.55 5.75 3.65	Ko M3 Fo Go A3 A2	7 9 12.300 7 10 19.680 7 11 2.878 7 11 54.264 7 14 21.251 7 15 2.851	-0.5078 +3.4451 +1.7101 +4.4557 +4.1717 +3.4477	+ 44 + 6 -142 + 36 - 16 - 35	-70 24 47.31 +16 15 2.04 -46 40 11.97 +47 20 10.32 +40 58 46.31 +16 38 15.62	-5.862 -6.100 -6.018 -6.373 -6.380 -6.487	+ 98 - 43 + 98 - 184 + 11 - 39	
278 281 279 280 1191	π Puppis δ Volantis δ Geminorum 19 Lyncis sq [66 Aurigae]	2.74 4.02 3.52 5.61 5.28	K5 F5 F0 B8 K0	7 15 16.201 7 16 51.746 7 16 57.518 7 18 32.973 7 20 28.452	+2.1193 -0.0293 +3.5831 +4.8953 +4.1547	- 8 - 12 - 19 - 8 - 5	-37 0 4.10 -67 51 36.81 +22 4 53.96 +55 23 0.91 +40 46 34.89	$ \begin{array}{c} -6.457 \\ -6.598 \\ -6.621 \\ -6.773 \\ -6.925 \end{array} $	+ 9 - 2 - 14 - 35 - 29	
283 282 1192 285 284	[η Canis maj.] ι Geminorum [169 G. Can.maj.] β Canis minor. Grb 1308 Caml	2.43 3.89 5.82 3.09 5.80	B 5 p K o F o B 8 K o	7 21 59.853 7 22 26.196 7 22 42.215 7 24 16.594 7 25 22.945	+2.3733 +3.7262 +2.7555 +3.2535 +6.2425	$ \begin{array}{r} -5 \\ -92 \\ -142 \\ -38 \\ -22 \end{array} $	-29 11 54.83 +27 54 18.64 -13 38 46.89 + 8 23 51.68 +68 34 36.85	-7.015 -7.146 -7.090 -7.247 -7.339	+ 6 - 89 - 11 - 40 - 40	
286 1193 1194 287 288	ρ Geminorum [6 Canis minor.] [σ Puppis] *α Geminorum [108 G. Puppis]	4.18 4.85 3.28 1.99 2.85 4.52	Fo Ko K5 Ao F8	7 25 42.265 7 26 50.800 7 27 32.880 7 31 13.179 7 31 46.944	+3.8587 +3.3396 +1.9034 +3.8292 +2.5677	+116 - 1 - 58 -138 - 38	+31 53 29.93 +12 7 4.14 -43 11 35.31 +32 0 23.01 -22 10 49.85	-7.152 -7.433 -7.283 -7.874 -7.781	+ 172 - 17 + 190 - 103 + 35	
1196 1195 1198 1197 289	[v Geminorum] [+46°1286 Lynx] [Q Carinae] [125 G. Puppis] 25 Monocerotis	4.22 5.80 4.92 5.66 5.17	K 5 K 5 K 5 B 3 F 5	7 32 39.510 7 32 41.068 7 34 21.021 7 34 21.218 7 34 38.539	+3.6969 +4.3556 +1.4837 +2.6372 +2.9828	- 26 - 29 + 15 - 4 - 51	+27 0 54.96 +46 17 56.75 -52 24 53.51 -19 34 58.67 - 3 59 28.54	-7.996 -7.928 -8.042 -8.019 -8.030	- 110 - 39 - 21 + 3 + 16	
290 291 292 293 294	[127 G. Puppis] *α Canis min. 24 Lyncis [26 α Monocer.] α Geminorum	4.62 0.48 4.96 4.07 3.70	B 8 F 5 A 2 K o G 5	7 35 24.330 7 36 31.692 7 38 31.975 7 38 42.868 7 41 14.994	+2.2196 +3.1403 +5.0760 +2.8666 +3.6220	- 27 -474 - 53 - 51 - 23	-34 50 53.30 + 5 21 44.28 +58 50 12.22 - 9 25 34.36 +24 31 36.48	-8.088 -9.226 -8.411 -8.394 -8.625	+ 18 -1029 - 54 - 24 - 54	
Nr. 2	Nr. 287. Ort des Schwerpunktes. Die Reduktion auf den Ort des helleren Sterns beträgt nach den Elementen von Rabe, Astron. Nachr. Bd. 216, 1922: $1947.0  \Delta \alpha = -0.003 \qquad \Delta \delta = +0.0072$									

1947.0 
$$\Delta \alpha = -0.003$$
  $\Delta \delta = +0.04$   
1948.0  $\Delta \delta = -0.007$   $\Delta \delta = +0.64$ 

Nr. 291. Ort des Schwerpunktes. Die Reduktion auf den Ort des hellen Sterns beträgt nach den Elementen von Jones, Monthly Notices Bd. 88, 1928: 1947.0  $\Delta \alpha = -0.016$   $\Delta \delta = -1.12$   $\Delta \delta = -1.12$ 

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o.°ooor	De <b>k</b> l. 1947.0	Jährl. Verände- rung 1947.5	Jährl. Eigen- bew. in o."oo1
295 297 1200 1199 1201	β Geminorum ζ Volantis [81 Geminorum] [+37°1769 Lynx] [11 Canis minor.]	1.21 3.89 5.02 5.45 5.30	Ko Ko K2 Mo Ao	7 42 4.503 7 42 29.168 7 43 3.407 7 43 7.267 7 43 21.187	+3.6711 -0.7376 +3.4737 +4.0028 +3.3025	-475 + 58 - 54 + 15 - 22	+28 9 21.15 -72 28 44.65 +18 38 27.29 +37 38 50.99 +10 53 56.14	- 8.689 - 8.649 - 8.776 - 8.712 - 8.761	- 53 + 18 - 61 + 7 - 24
1202 296 1203 1204 1206	[4 Puppis] π Geminorum [187 G. Puppis] [ξ Puppis] [61 G. Carinae]	5.11 5.29 5.26 3.47 5.82	F o K 2 B 2 G o p F 2	7 43 30·383 7 44 5·526 7 45 55·345 7 47 3·852 7 48 20·374	+2.7627 +3.8684 +1.8127 +2.5235 +0.9905	- 10 - 9 - 13 - 3 - 95	-14 26 1.35 +33 32 51.14 -46 28 33.87 -24 43 32.16 -60 9 3.58	- 8.745 - 8.827 - 8.935 - 9.031 - 8.976	+ 4 - 31 + 4 - 3 +151
1205 1207 301 299 300	[ζ Canis minor.] [φ Geminorum] [213 G. Puppis] [26 Lyncis] Grb 1374 Caml	5.11 4.99 3.76 5.69 5.56	B 8 A 2 G 5 K o	7 48 57.057 7 50 15.338 7 50 23.602 7 50 51.529 7 53 53.518	+3.1112 +3.6715 +2.0620 +4.3682 +7.1824	- 15 - 28 - 21 - 50 - 30	+ 1 54 12.77 +26 54 16.59 -40 26 17.30 . +47 42 14.34 +74 3 45.98	- 9.180 - 9.312 - 9.286 - 9.326 - 9.593	- 5 - 35 0 - 2 - 35
1208 1209 303 1210 304	[1 Caneri] [Grb 1384 Lynx] χ Carinae [225 G. Puppis] [27 Monocerotis]	5.96 6.47 3.60 4.85 5.06	Ko Ko B3 A2 Ko	7 53 58.954 7 54 33.555 7 55 25.824 7 55 33.278 7 57 5.242	+3.4061 +4.2141 +1.5251 +2.3919 +2.9969	$ \begin{array}{r} -23 \\ +38 \\ -41 \\ -6 \\ -43 \end{array} $	+15 56 0.03 +44 7 15.13 -52 50 21.54 -30 11 27.27 - 3 32 1.43	- 9.610 - 9.601 - 9.645 - 9.678 - 9.803	- 45 + 8 + 29 + 6 - 1
302 1212 1211 1213 305	[53 Camelop.] [232 G. Puppis] [ω Cancri] [161 G. Monocer.] χ Geminorum	6.00 4.64 5.88 6.30 5.04	A2p A2 Ko Go Ko	7 57 11.524 7 57 29.459 7 57 43.582 7 59 49.715 8 0 15.939	+5.1227 +2.6885 +3.6300 +2.9484 +3.6845	$ \begin{array}{rrr}  - 74 \\  - 6 \\  + 8 \\  + 7 \\  - 21 \end{array} $	+60 28 17.71 -18 15 9.80 +25 32 22.07 - 6 11 17.87 +27 56 40.29	- 9.832 - 9.883 - 9.851 -10.038 -10.090	- 22 - 50 0 - 28 - 46
306 307 308 1214 1215	ζ Puppis 27 Lyncis ρ Puppis [Pi 7 <sup>h</sup> 308 Lynx] [3 H. Ursae maj.]	2.27 4.87 2.88 6.64 5.48	O d A 2 F 5 F 8 G 5	8 I 43.204 8 4 28.747 8 5 17.158 8 6 44.737 8 7 33.849	+2.1085 +4.5126 +2.5554 +3.9039 +5.9719	- 30 - 67 - 60 +163 - 4	-39 51 10.17 +51 39 40.98 -24 9 1.07 +35 36 55.92 +68 37 57.78	-10.139 -10.370 -10.370 -10.767 -10.586	+ 13 - 9 + 51 -237 + 7
309 311 310 312 1216	γ Velorum 20 Puppis Br 1147 Caml β Cancri [+4° 1945 Hydra]	1.92 5.05 5.73 3.76 6.68	Oap G5 G5 K2 G0 +A2	8 7 53.905 8 10 53.744 8 12 56.227 8 13 38.512 8 14 31.146	+1.8492 +2.7576 +7.5350 +3.2535 +3.1586	- 8 - 12 + 65 - 34 + 1	-47 10 46.36 -15 37 38.41 +75 55 18.95 + 9 21 1.05 + 4 23 2.24	—10.609 —10.843 —10.973 —11.089 —11.101	+ 5 - 6 + 15 - 51 + 1
313 1218 1217 314 1219	[289 G. Puppis] [7 G. Hydrae] [\chi Cancri] 31 Lyncis [294 G. Puppis]	4.43 6.32 5.16 4.43 4.94	A 5 A 5 F 5 K 5	8 16 34.194 8 16 42.597 8 16 50.870 8 19 12.833 8 19 17.691	+2.2457 +2.8740 +3.6442 +4.1075 +2.3627	- 94 - 43 - 15 - 16 - 13	-36 29 38.76 - 9 59 57.39 +27 23 26.84 +43 21 35.35 -32 53 4.92	-11.232 -11.657 -11.546	+ 29 -386 -104

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o.cooi	Dekl. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o."cox
1220 315 318 1221 316 319 1222 317	[20 Cancri]  c Carinae  d Chamael.  [302 G.Puppis pr]  Br 1197 Hydra  [\$\begin{array}{c} \text{Volantis} \\ \text{[29 Cancri]} \\ \text{o} \text{Ursae maj.} \end{array}	m 5.88 1.74 4.26 5.55 3.95 3.65 5.90 3.47	F o K o + B K o K 5 A o K o A 2 G o	8 20 19.852 8 21 25.664 8 22 16.277 8 22 46.360 8 23 0.726 8 25 10.030 8 25 39.962 8 25 52.655	+3.4351 +1.2313 -1.7947 +2.5908 +2.9979 +0.6543 ,+3.3477 +4.9846	- 40 - 37 -386 - 22 - 46 - 44 - 13 -185	+18 30 13.80 -59 20 18.00 -77 18 51.04 -23 52 23.41 - 3 43 56.19 -65 57 34.78 +14 23 15.52 +60 53 50.63	-11.552 -11.580 -11.669 -11.738 -12.023 -11.917 -12.027	- 30 + 18 + 39 + 27 - 26 - 160 - 16 - 111
320 321 322 1223 323	Grb 1450 Lynx	6.05 5.52 6.29 4.18 6.03	Ko Ko Ko Ao	8 29 28.588 8 29 38.745 8 33 51.756 8 34 51.061 8 35 22.619	+3.9001 +3.4691 +6.6723 +3.1760 +4.4451	- 86 - 35 - 51 - 47 - 39	+38 11 59.06 +20 37 21.32 +73 49 3.31 + 5 53 23.26 +52 53 56.50	-12.339 -12.228 -12.574 -12.548 -12.609	-173 - 49 -104 - 12 - 37
324 1224 1225 325	[48 G. Velorum] [ $\sigma$ Hydrae] [34 Lyncis] [6 Hydrae]	4.13 4.54 5.52 5.15	А 5 Ко Ко К2	8 35 46.710 8 35 59.263 8 37 21.768 8 37 30.746	+2.1091 +3.1359 +4.1460 +2.8422	- 17 - 13 + 21 - 60	-42 48 9.90 + 3 31 43.37 +46 1 17.32 -12 17 12.90	-12.592 -12.636 -12.623 -12.723	+ 7 - 21 + 85 - 6
1227 1226 1228 327 326	o Velorum  [53 G. Velorum]  [γ Cancri]  α Pyxidis δ Cancri	3.68 4.06 4.73 3.70 4.17	B 3 F 5 p A 0 B 2 K 0	8 38 46.477 8 38 51.980 8 40 13.286 8 41 27.660 8 41 40.513	+1.7197 +1.9911 +3.4717 +2.4110 +3.4091	$ \begin{array}{rrr}  - 22 \\  - 6 \\  - 76 \\  - 13 \\  - 14 \end{array} $	-52 43 58.60 -46 27 33.48 +21 39 37.61 -32 59 39.59 +18 21 1.50	-12.780 -12.804 -12.944 -12.973 -13.230	+ 22 + 4 - 44 + 9 -233
331 328 1230	[25 G. Pyxidis] [ $\eta$ Chamael.] $\iota$ Cancri [14 Hydrae]	6.13 5.62 4.20 5.19	A 2 B 9 G 5 B 9 K 2	8 42 32.955 8 43 10.760 8 43 29.625 8 46 41.897 8 48 16.869	+2.6849 -2.0313 +3.6303 +3.0148 +2.5465	+ 4 - 78 - 19 - 18 - 101	-20 58 27.37 -78 46 18.51 +28 57 18.73 - 3 14 42.63 -27 30 44.55	-13.030 -13.073 -13.162 -13.351 -13.350	+ 25 + 20 - 45 - 23 + 81
33 <sup>2</sup> 334 1231 336	[γ Pyxidis] ζ Hydrae [80 G. Hydrae] 108 G. Carinae ι Ursae maj.	4.19 3.30 5.90 3.98 3.12	Ko Ko B8	8 52 35.574 8 52 46.270 8 53 50.872 8 55 35.300	+2.5405 +3.1712 +2.7583 +1.3606 +4.1075	$     \begin{array}{r}       -161 \\       -69 \\       +23 \\       -25 \\     \end{array} $	+ 6 8 54.32 -18 2 18.21 -60 26 29.52 +48 15 4.23	-13.699 -13.738 -13.746 -14.139	+ 10 - 19 + 41 -240
337 1233 1232 339 338	α Cancri [109 G. Carinae] [64 Cancri] Br 1268 Lynx ρ Ursae maj.	4.27 5.29 5.64 4.09	A 3 B 3 G 5 F 5	8 55 35.401 8 55 40.606 8 56 17.650 8 57 12.388 8 57 47.695	+3.2811 +1.4679 +3.6839 +3.8944 +5.4099	+ 22 - 20 - 37 -395 - 45	+12 3 50.84 -59 1 26.41 +32 37 32.82 +41 59 38.35 +67 50 17.26	-13.932 -13.892 -13.983 -14.258 -14.022	$ \begin{array}{r}     -34 \\     +12 \\     -40 \\     -257 \\     +16 \end{array} $
1234 1235 341 340	[91 G. Velorum] [92 G. Hydrae] × Ursae maj. [Grb1501 UMaj]	5.80 3.68	F8 Ko Ao A2	8 58 6.579 8 59 15.511 9 0 0.964 9 0 8.131	+5.4099 +2.2398 +3.0649 +4.0958 +4.3951	- 45 - 40 - 37 - 35 - 14	-41 2 47.56 - 0 16 27.69 +47 22 3.50 +54 29 39.57	-14.017 -14.052 -14.233 -14.184	+ 39 + 76 - 58

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährk. Verände- rung 1947-5	Jährl. Eigen- bew. in o <sup>\$</sup> ooox	Dekl. 1947.0	Jährl. Verände- rung 1947.5	Jährl. Eigen- bew. in o."cor
1236 343 342 1237 1238	[93 G. Hydrae] α Volantis [97 G. Velorum] [Pi 8 <sup>h</sup> 245 Lynx] [κ Cancri]	4.18 3.69 4.71	A o A 5 K o G 5 B 8	9 I 4.938 9 I 36.959 9 2 I9.453 9 3 9.854 9 4 52.658	+2.9905 +0.9487 +2.0686 +3.8159 +3.2492	- II + II - 57 - 27 - 17	- 4 57 37.93 -66 11 2.95 -46 53 9.39 +38 39 55.34 +10 52 57.67	-14.236 -14.373 -14.331 -14.391 -14.483	+ 5 -101 - 15 - 22 - 10
345 1239 1240 1241 1242	λ Velorum [ξ Caneri] [101 G. Hydrae] [ε Pyxidis] [107 G. Hydrae]	5.22 5.81 5.63 5.81	K5 G5 K0 A3 K0	9 6 2.661 9 6 18.883 9 6 38.957 9 7 41.546 9 9 33.011	+2.2067 +3.4491 +2.8767 +2.5432 +2.7484	- 25 0 + 8 0 - 39	-43 13 3.77 +22 15 39.59 -12 8 31.72 -30 8 52.96 -19 31 48.68	-14.527 -14.560 -14.594 -14.686 -14.717	+ 15 - 1 - 15 - 45 + 34
346 347 348 351 350	[36 Lyncis]  Property Hydrae  β Carinae  [ε Carinae]  83 Cancri	5.30 3.84 1.80 2.25 6.60	B8 Ao Ao Fo F5	9 10 20.690 9 11.36.455 9 12 37.711 9 15 40.295 9 16 1.510	+3.9237 +3.1215 +0.6611 +1.6065 +3.3481	$     \begin{array}{r}       -27 \\       +86 \\       -280 \\       -23 \\       -87     \end{array} $	+43 26 15.35 + 2 32 20.12 -69 29 55.05 -59 3 8.31 +17 55 52.00	-14.838 -15.187 -14.829 -15.103 -15.264	-39 $-314$ $+103$ $+5$ $-135$
35 <sup>2</sup> 1243 353 1244 1245	α Lyncis [Φ Pyxidis] α Velorum [κ Leonis] [28 Hydrae]	4.61 5.81	K 5 M 0 B 3 K 0 K 5	9 17 49.903 9 19 8.710 9 20 28.259 9 21 34.295 9 22 45.006	+3.6545 +2.6566 +1.8582 +3.4937 +2.9997	- 181 - 7 - 12 - 25 - 11	+34 37 4.27 -25 44 20.28 -54 47 1.05 +26 24 41.85 - 4 53 16.56	-15.220 -15.317 -15.371 -15.493 -15.522	+ 13 - 10 + 10 - 49 - 14
354 356 355 1246 358	α Hydrae ε Antliae 23 Ursae maj. [ξ Leonis] θ Ursae maj.	5.12	K <sub>2</sub> K <sub>2</sub> F <sub>0</sub> G <sub>5</sub> F <sub>8</sub> p	9 24 58.950 9 27 3.320 9 27 22.345 9 29 5.425 9 29 19.442	+2.9483 +2.4764 +4.7293 +3.2334 +4.0120	- 10 - 22 + 155 - 66 -1031	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	-15.605 -15.754 -15.736 -15:941 -16.409	+ 27 - 10 + 25 - 87 -542
361 357 1247 360 362	[N Velorum] 24 Ursae maj. [160 G. Hydrae] 10 Leonis min. [H Carinae]	3.4-4.2 4.57 5.16 4.62 5.52	K 5 G 0 K 0 G 5 K 2	9 29 36.596 9 29 49.873 9 30 45.929 9 30 58.941 9 31 13.367	+1.8232 +5.3040 +2.7625 +3.6750 +0.4528	- 42 - 135 - 18 + 4 - 32	-56 47 59.74 +70 3 53.89 -20 52 49.01 +36 38 2.20 -72 50 44.61	15.879 15.818 15.932 15.984 15.974	+ 2 + 75 + 11 - 29 - 8
1248 1249 1250 363 364	[17 G. Antliae] [Br1352 Hydrae] [L Hydrae] [Grb 1564 UMaj] [L Hydrae]	4.96	Ko Ko Ko B 3	9 34 52.881 9 35 41.470 9 37 8.960 9 37 44.635 9 37 45.846	+2.5830 +3.1297 +3.0640 +5.1349 +2.8762	+ 27 - 108 + 31 - 141 - 20	-31 56 22.65 + 4 53 22.45 - 0 54 4.73 +69 28 48.85 -14 5 27.61	-16.183 -16.256 -16.344 -16.379 -16.330	<ul> <li>24</li> <li>55</li> <li>69</li> <li>74</li> <li>24</li> </ul>
365 1251 1252 366 367	[ο Leonis] [15 Leonis] [ψ Leonis]  ð Antliae ε Leonis	5·73 5.62	F 5 A 2 M 0 F 5 P G 0 P	9 38 19.401 9 40 27.096 9 40 50.824 9 41 50.214 9 42 50.776	+3.2018 +3.5164 +3.2669 +2.6746 +3.4051	- 38	+10 8 3.84 +30 13 8.60 +14 15 54.62 -27 31 33.82 +24 1 9.26	-16.374 -16.552 -16.466 -16.480 -16.577	

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- hew. in o <sup>§</sup> 0001	Dekl. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o."oor
1253 1254 1255 368 370 1256 371 373 1257 372 374 375	[+19° 2254 Leo] [1 Carinae] [Br 1369 U Maj] v Ursae maj. 6 Sextantis [162 G. Velorum] [\mu Leonis] [183 G. Hydrae] [18 G. Sextantis] Grb 1586 UMaj [19 Leonis min.] \( \rho \) Velorum	6.92 3.6–4.8 5.20 3.89 6.00 5.72 4.10 5.16 7.03 5.96 5.19 3.70	Ko Go Go Fo A 2 Ko Ko Ko F 5 B 5	9 42 55.447 9 43 47.426 9 45 10.826 9 47 14.282 9 48 33.750 9 49 16.504 9 49 45.191 9 52 22.125 9 53 29.936 9 53 41.393 9 54 26.733 9 54 59.999	+3.3327 +1.6485 +3.8696 +4.2657 +3.0231 +2.3247 +3.4117 +2.8303 +2.9803 +5.3615 +3.6740 +2.1064	+ 16 - 18 +215 -386 + 5 - 29 -162 - 31 - 20 -183 -107 - 16	+18 55 43.10 -62 15 46.04 +46 16 8.43 +59 17 21.13 - 3 59 38.91 -45 56 42.71 +26 15 26.93 -18 45 27.18 - 7 23 35.90 +73 7 58.40 +41 18 32.27 -54 18 53.08	-16.584 -16.593 -16.772 -16.931 -16.835 -16.953 -17.062 -17.074 -17.119 -17.141 -17.125	- 19 + 13 - 97 - 157 - 33 + 35 - 60 - 47 - 6 - 43 - 30 + 11
377 376 378 1258	[η Antliae] [12 Sextantis] π Leonis [20 Leonis min.]	5.25 6.63 4.89 5.60	Fo A5 Mo G5	9 56 35.618 9 56 58.130 9 57 24.821 9 57 57.642	+2.5739 +3.1117 +3.1703 +3.4587	- 81 - 49 - 23 -414	-35 38 11.87 + 3 38 20.11 + 8 17 57.53 +32 11 6.78	-17.232 -17.206 -17.271 -17.703	$ \begin{array}{r} -25 \\ +18 \\ -27 \\ -434 \end{array} $
1259 1260 1261 379 380	[Pi 9 <sup>h</sup> 229 UMaj] [193 G. Hydrae] [υ <sup>2</sup> Hydrae] η Leonis α Leonis	5.74 5.80 4.72 3.58	F 5 F 0 B 8 A 0 p	10 I 5.778 10 I 53.999 10 2 32.540 10 4 26.711 10 5 33.069	+3.9871 +2.7726 +2.9216 +3.2704 +3.1949	-28 $-71$ $-26$ $-4$ $-169$	+54 8 56.62 -24 1 41.92 -12 48 25.20 +17 1 18.80 +12 13 37.27	-17.417 -17.421 -17.461 -17.555 -17.594	- 10 + 20 + 8 - 6 + 3
381 .385 382 .384	λ Hydrae [ω Carinae] 191 G. Velorum ζ Leonis	3.83 3.56 4.09 3.65	K o B 8 A 2 F o	10 8 0.180 10 12 28.838 10 12 30.427 10 13 44.739	+2.9251 +1.4290 +2.5185 +3.3363	-138 - 45 -136 + 11	-12 5 29.08 -69 46 27.74 -41 51 31.53 +23 40 55.75	—17.791 —17.876 —17.839 —17.940	- 93 + 2 + 40 - 12
383 1262 1263 1264 1265	λ Ursae maj. [32 Ursae maj.] [ε Sextantis] [187 G. Carinae] [59 G. Antliae]	3·5 <sup>2</sup> 5·74 5·40 3·44 5·62	A 2 A 3 F 0 K 5 B 9	10 13 54.495 10 14 12.556 10 14 59.716 10 15 18.581 10 15 41.640	+3.6178 +4.3565 +2.9813 +2.0039 +2.7499	-152 -144 -109 - 32 - 14	+43 10 47.39 +65 22 25.41 - 7 48 12.73 -61 4 0.96 -28 43 34.94	-17.979 -17.960 -17.976 -17.983 -17.993	- 45 - 13 + 1 + 5 + 10
1266 386 1268 1267 387	[23 Sextantis]  µ Ursae maj.  [204 G. Velorum  [27 Leonis min.]  30 H. Ursae maj.	6.53 3.21 4.99 5.83 4.92	B 3 K 5 K 5 A 3 A 0	10 18 17.790 10 19 10.745 10 20 2.931 10 20 3.503 10 20 20.018	+3.0981 +3.5738 +2.5732 +3.4553 +4.3251	- 8 - 75 - 28 - 10 - 24	+ 2 33 25.23 +41 46 0.55 -41 22 57.78 +34 10 35.06 +65 50 7.09	-18.107 -18.106 -18.115 -18.182 -18.203	
388 1269 391 389 392	[25 Sextantis] [64 G. Antliae] I Carinae  µ Hydrae  α Antliae	6.10 5.40 4.08 4.06 4.42	B 9 A 3 F 5 K 5 K 5	10 20 45.696 10 21 9.814 10 23 20.967 10 23 31.512 10 24 43.410	+1.1922 +2.9019	- 37 -136 - 30 - 89 - 57	- 3 48·19.89 -37 44 24·77 -73 45 41.64 -16 33 54·44 -30 47 49.96	-18.194 -18.263 -18.313 -18.377 -18.321 B 47	- 54 - 26 - 83

1		2 7 5						135 77 14 1	You There's
Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947.5	Jährl. Eigen- bew. in o <sup>§</sup> 0001	Dekl. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o!oor
390 393 1270 1271 394 1272 396	β Leonis min. 196 G. Carinae [8 Sextantis] [+29°2057 LMin] 36 Ursae maj. [46 Leonis] [ρ Leonis]	4.84 5.74 3.85	K o F o B o F 5 B o p	h m s 10 24 49.472 10 25 55.696 10 26 47.156 10 26 55.621 10 27 14.907 10 29 22.119 10 30 1.287	+3.4688 +2.2023 +3.0470 +3.3646 +3.8386 +3.2025 +3.1588	-102 - 20 - 35 + 7 -218 - 29 - 6	+36 58 46.06 -58 28 5.92 - 2 28 1.95 +28 51 10.80 +56 15 11.09 +14 24 35.33 + 9 34 47.78	-18.449 -18.383 -18.428 -18.460 -18.481 -18.524	-109 - 5 - 19 - 8 - 35 + 16 - 6
397	[203 G. Carinae]	3.58	B 5 p	10 30 8.075	+2.1336	$ \begin{array}{rrr}  - 27 \\  - 96 \\  + 6 \end{array} $	-61 24 43.92	-18.513	+ 9
395	9 H. Draconis	5.04	G 5	10 30 38.719	+5.0972		+75 59 12.83	-18.548	- 9
1273	219 G. Velorum	5.14	K o	10 30 42.502	+2.5347		-46 43 47.52	-18.542	- 1
399	[44 Hydrae]	5.32	K2	10 31 29.457	+2.8540	$ \begin{array}{r}  - 7 \\  + 78 \\  +175 \\  -125 \\  + 2 \end{array} $	-23 28 17.31	-18.549	+ 18
398	[37 Ursae maj.]	5.16	Fo	10 31 45.732	+3.8641		+57 21 22.76	-18.542	+ 34
1274	[236 G. Hydrae]	5.85	F8	10 33 53.903	+2.9870		-11 56 42.42	-19.326	-680
401	[7 Chamaeleon.]	4.10	Mo	10 34 51.513	+0.7114		-78 19 57.51	-18.656	+ 20
1275	[37 Leonis min.]	4.77	Go	10 35 44.550	+3.3763		+32 15 7.56	-18.704	+ 1
402	[225 G. Velorum]	5.73	Go	10 37 11.506	+2.3884	- 21	-55 19 36.46	-18.751	- 2
404	33 Sextantis		Ko	10 38 42.371	+3.0520	- 94	- 1 27 44.73	-18.921	-125
403	[35 H. Ursae maj.]		Ko	10 39 18.125	+4.2948	- 8	+69 21 14.84	-18.831	- 17
1277	[78 G. Antliae]		Ao	10 40 15.561	+2.7814	- 23	-32 26 15.60	-18.841	+ 1
1276	[Pi 10h 135 UMaj]		Fo	10 40 26.533	+3.5257	-260	+46 28 58.62	-18.922	- 74
405	[41 Leonis min.] 9 Carinae 42 Leonis min. [Br 1493 Leo] [51 Leonis]	5.05	A 2	10 40 32.232	+3.2618	- 85	+23 27 59.10	-18.845	+ 5
406		3.03	B 0	10 41 3.652	+2.1411	- 24	-64 6 58.53	-18.854	+ 12
407		5.37	B 9	10 42 55.325	+3.3356	- 21	+30 57 43.21	-18.961	- 41
1278		6.29	K 0	10 43 20.125	+3.1236	- 8	+ 6 39 10.81	-18.973	- 40
1279		5.64	K 0	10 43 33.338	+3.2317	+ 64	+19 10 17.22	-18.984	- 45
1280	[250 G. Hydrae]	6.86	K o	10 44 11.447	+2.8516	-121	-25 46 9.41	—18.908	+ 49
411	[8 <sup>2</sup> Chamaeleon.]	4.62	B 3	10 45 18.553	+0.5650	-153	-80 15 38.04	—18.986	+ 2
409	53 Leonis	5.27	A o	10 46 28.335	+3.1533	- 4	+10 49 34.16	—19.048	- 28
410	[v Hydrae]	3.32	K o	10 47 0.463	+2.9606	+ 67	-15 54 57.02	—18.841	+195
1281	[41 Sextantis]	5.78	A 2	10 47 38.429	+3.0099	- 5	- 8 36 59.54	—19.074	- 21
412 414 413 1282 1283	[46 Leonis min.] [1 Antliae] [Br 1508 Draco] [47 Ursae maj.] [\alpha Crateris]	3.92 4.70 6.26 5.14 4.20	Ko Ko G5 Go Ko	10 50 21.169 10 54 14.592 10 55 46.393 10 56 30.271 10 57 11.376	+3.3549 +2.7966 +4.7940 +3.3595 +2.9233	+ 69 + 67 -246 -281 -323	+34 30 3.78 -36 51 8.72 +78 3 16.72 +40 42 49.36 -18 0 58.18	-19.410 -19.356 -19.292 -19.230 -19.172	$ \begin{array}{r} -285 \\ -132 \\ -31 \\ +49 \\ +123 \end{array} $
415 1284 416 1285 417	239 G. Velorum [58 Leonis] β Ursae maj. [29 G. Leonis] α Ursae maj.	4.56 5.05 2.44 7.13 1.95	A 2 K 0 A 0 G 5 K 0	10 57 42.999 10 57 49.403 10 58 39.380 10 59 54.961 11 0 28.429	+3.6200 +3.0523	+ 17 + 8 + 97 - 14 -174	-41 56 28.54 + 3 54 8.98 +56 40 0.97 - 3 13 37.36 +62 2 15.13	-19.311 -19.328 -19.302 -19.389 -19.442	+ 27 - 30

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		ge ge	Spektrum		Jährl.	Jährl.	Total Barrie	Jährl.	Jährl.
Nr.	Name	Größe	ktu	AR. 1947.0	Verände-	Eigen- bew. in	Dekl. 1947.0	Verände-	Eigen- bew. in
	The state of the state of	0	Spe		rung	0,0001		rung	0."00x
200					1947-5			1947.5	
418	χ Leonis	4.66	Fo	h m s II 2 17.011	+3.0946	-231	+ 7 37 22.55	<b>—19.460</b>	- 40
419	[x <sup>1</sup> Hydrae]	5.06	F 5	11 2 46.471	+2.8907	-143	-27 0 25.52	<b>—19.426</b>	- 49 - 4
1286	[II G. Crateris]	6.14	A 3	11 2 54.275	+3.0114	+ 10	—10 48 5.75	-19.530	-105
1287	[65 Leonis]	5.66	G 5	11 4 11.988	+3.0603	-255	+ 2 14 36.88	-19.542	— 9 <del>0</del>
1288	[259 G. Carinae]	5.80	B 3	11 4 54.658	+2.1666	-39	-70 35 27.25	-19.469	- 2
			F 8 p	3.4		- 4-5 - 3	The same will be		75.75
1289	[260 G. Carinae]	4.02	Ко	11 6 19.069	+2.5628	$-8 \\ -62$	-58 4I 15.19	-19.497 -19.534	— I
420	ψ Ursae maj.   β Crateris	3.15	A 2	11 6 41.472 11 9 2.883	+3.3726	Maria and the same of	+44 47 II.29 -22 32 IO.09	-19.534 $-19.653$	— 3I — TO2
421	[275 G.Hydrae]	4.52 6.46	Mo	11 9 2.883 11 9 41.262	+2.9514 +2.8918	+ 3 + 14	-32 8 44.18	<b>—19.558</b>	-103 + 4
1290	[9 G. Centauri]	5.67	A 2	11 10 7.777	+2.7339	- 98	<b>-48 48 46.09</b>	-19.530	+ 41
		1.7	March 1	200			1 - 2		
422	δ Leonis	2.58	A 3	11 11 17.516	+3.1905	+102	+20 48 51.81	-19.728	-136
423	9 Leonis	3.41	Ao	11 11 27.618	+3.1479	<b>- 43</b>	+15 43 10.45	-19.677	- 8 <sub>2</sub>
424	[Grb 1757 U Maj]	-	Ko	11 13 43.144	+3.3804	- 94	+49 45 56.98	-19.651 -19.682	- I5
1292	[φ Leonis]	4.58	A: 5 Ko	11 13 57.951	+3.0501	<b>—</b> 75	- 3 2I 4I.77	-19.683 -19.646	- 43 + 22
425	ν Ursae maj.	3.71	0.00	11 15 37.222	+3.2403	<b>— 23</b>	+33 23 1.53	-19.646	VIU-P
1293	[55 Ursae maj.]	4.78	A 2	11 16 14.915	+3.2696	<b>- 49</b>	+38 28 35.52	-19.756	<b>— 77</b>
426	δ Crateris	3.82	Ko	11 16 41.298	+2.9999	<b>- 85</b>	-14 29 29.30	-19.487	+200
427	σ Leonis	4.13	Ao	11 18 24.207	+3.0935	<b>- 64</b>	+ 6 19 12.35	-19.727	- 13
428	π Centauri	4.26	B 5	11 18 34.946	+2.7373	- 3 <sup>I</sup>	-54 12 0.93	-19.720	4
429	Grb 1771 U Maj	5.98	Ao	11 19 43.376	+3.5641	<b>— 13</b>	+64 37 14.81	-19.706	+ 29
1294	[28 G. Centauri]	6.42	В 3	11 21 49.503	+2.8697	<b>— 15</b>	-42 22 40.23	-19.776	- 10
431	[\gamma Crateris]	4.14	A 5	11 22 13.862	+2.9977	<b>–</b> 69	<b>—17</b> 23 33.68	-19.773	<b>— 2</b>
1295	[Pi 11h 63 Leo]	7.15	A 2	11 22 57.361	+3.1806	<b>— 23</b>	+27 2 19.44	-19.779	+ 3
1296	[83 Leonis]	6.54	Ko	11 24 4.341	+3.0371	-482	+ 3 18 7.86	-19.620	+177
1297	[τ Leonis]	5.18	Ко	11 25 12.674	+3.0855	+ 12	+ 3 8 54.00	-19.829	- 17
1298	[282 G. Hydrae]	6.79	Ko	11 26 59.786	+2.9713	<b>— 12</b>	-27 44 17.90	-19.842	- 7
432	[58 Ursae maj.]	5.88	F 8	11 27 39.402	+3.2460	<b>—</b> 53	+43 27 51.62	-19.768	+ 76
433	λ Draconis	4.06	Mo	11 28 16.846	+3.5612	<b>-</b> 78	+69 37 25.73	-19.871	- 20
434	ξ Hydrae	3.72	G 5	11 30 23.413	+2.9515	-161	-31 33 50.64	-19.914	<b>— 38</b>
436	λ Centauri	3.34	B 9	11 33 19.525	+2.7672.	<b>—</b> 53	-62 43 34.72	-19.913	— <sub>5</sub>
435	[C <sup>2</sup> Centauri]	5.42	Fo	11 33 20.949	+2.9079	+ 28	<b>-47</b> 20 51.18	-19.959	— 51
1299	[& Crateris]	4.81	Bg	11 33 59.451	+3.0436	<b>— 43</b>	- 9 30 32.24	19.910	+ 4
437	υ Leonis	4.47	Ko	11 34 14.039	+3.0720	+ 2	- o 31 51.50	-19.878	+ 39
438	[\pi Chamaeleon.]	5.74	Fo.	11 35 3.631	+2.4766	-319	<b>-75 36 10.08</b>	-19.917	+ 7
439	[o Hydrae]	4.88	В 8	11 37 34.519	+2.9808	<b>— 30</b>	-34 27 2.40	-19.944	+ 3
1300	[61 Ursae maj.]	5.46	G 5	11 38 15.795	+3.1589	<b>— 12</b>	+34 30 3.86	-20.343	<b>-390</b>
440	3 Draconis	5.48	Ко	11 39 32.023	+3.3459	— 8 <sub>3</sub>	+67 2 18.02	-19.928	+ 34
1301	[ζ Crateris]	4.90	G 5	11 42 4.387	+3.0416	+ 24	-18 3 21.55	-20.018	- 37
442	[\lambda Muscae]	3.80	A 5	11 43 5.567	+2.8330	-148	-66 26 5.32	-19.958	+ 30
1302	[v Virginis]	4.20	Mo	11 43 8.096	+3.0837	<b>— 12</b>	+ 6 49 35.26	-20.176	-187
			1000					B* 47	- 1-13

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Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o.soooi	Dekl. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in osooi
441 443 1303 1304 1305 444	χ Ursae maj. [65 G. Centauri] [Grb 1826 UMaj] [93 Leonis] [298 G. Hydrae] β Leonis	3.85 4.22 6.64 4.54 5.45	Ko Go Fo F8 M3	11 43 15.524 11 43 56.219 11 44 16.956 11 45 15.176 11 46 . 4.214 11 46 21.428	+3.1678 +2.9014 +3.2378 +3.0945 +3.0309 +3.0600	- 138 - 42 - 52 - 108 - 20 - 343	+48 4 24.04 -60 53 0.87 +61 41 48.82 +20 30 48.59 -26 27 17.73 +14 52 6.13	-19.966 -20.013 -20.040 -20.012 -20.017 -20.126	+ 23 - 19 - 44 - 11 - 11
445	β Virginis [12 G. Virginis] [B Centauri] [Grb 1830 UMaj]	3.80	F8	11 47 56.010	+3.1252	+ 494	+ 2 3 48.45	-20.290	- 275
1306		5.81	Ko	11 48 19.553	+3.0675	+ 3	- 5 2 18.82	-20.022	- 5
446		4.71	Ko	11 48 29.153	+2.9978	- 88	-44 52 43.27	-20.047	- 29
1307		6.46	G5	11 49 55.781	+3.4576	+3385	+38 5 56.70	-25.828	-5805
447	γ Ursae maj. [95 Leonis] [η Crateris] [Ρί 11 <sup>h</sup> 202 UMaj] [π Virginis]	2.54	A o	11 51 3.092	+3.1553	+ 104	+53 59 22.04	-20.022	+ 6
1308		5.49	A 2	11 52 57.032	+3.0856	+ 7	+15 56 30.16	-20.037	- 3
1309		5.16	A o	11 53 18.658	+3.0577	- 37	-16 51 20.52	-20.046	- 11
1310		6.30	F o	11 55 24.028	+3.0818	- 84	+32 34 11.20	-20.107	- 69
1311		4.57	A 3	11 58 9.390	+3.0744	- 2	+ 6 54 35.41	-20.075	- 33
449 450 451 1312 452	[88 G. Centauri] o Virginis [Grb 1852 Caml] [311 G. Hydrae] & Centauri	5.28 4.24 5.96 6.26 2.88	F o G 5 K o B 9 B 3 p	12 0 54.377 12 2 30.540 12 2 35.096 12 3 12.753 12 5 36.114	+3.1074 +3.0560 +3.0500 +3.0824 +3.1097	+ 292 - 149 + 438 - 42 - 33	-42 8 14.14 + 9 1 38.43 +77 12 7.10 -35 23 55.37 -50 25 38.05	-20.162 -19.996 -20.141 -20.036 -20.047	- 120 + 45 - 100 + 5 - 10
453	e Corvi	3.21	K o	12 7 23.666	+3.0861	<ul> <li>49</li> <li>14</li> <li>22</li> <li>25</li> <li>44</li> </ul>	-22 19 30.12	-20.023	+ 10
1313	[3 Comae]	6.34	A o	12 7 49.568	+3.0577		+17 6 14.57	-20.037	- 6
454	Br 1634 Caml	5.12	A 5	12 9 44.375	+2.8098		+77 54 38.27	-20.006	+ 19
1314	[Br 1636 U Maj]	6.26	K o	12 12 6.169	+2.9744		+53 43 45.92	-20.034	- 19
455	[8 Crucis]	3.08	B 3	12 12 19.059	+3.1861		-58 27 14.51	-20.020	- 6
456	8 Ursae maj. [γ Corvi] [2 Canum venat.] β Chamaeleontis [14 Virginis]	3.44	A 2	12 12 48.665	+2.9692	+ 125	+57 19 36.94	-20.008	+ 3
457		2.78	B 8	12 13 4.590	+3.0858	- 111	-17 14 51.98	-19.994	+ 16
458		5.92	K 5	12 13 28.451	+3.0064	+ 14	+40 57 18.15	-20.047	- 39
459		4.38	B 5	12 15 11.623	+3.5170	- 133	-79 1 4.77	-19.982	+ 16
1315		7.03	K o	12 16.36.345	+3.0879	0	- 8 37 12.49	-20.017	- 27
460	η Virginis [3 Canum venat.] [16 Virginis] [12 Comae] [322 G. Hydrae]	4.00	A o	12 17 11.553	+3.0696	- 42	- 0 22 20.64	-20.008	- 22
1316		5.56	K 2	12 17 12.431	+2.9556	- 10	+49 16 41.35	-19.983	+ 3
1317		5.10	K o	12 17 39.393	+3.0471	- 197	+ 3 36 27.18	-20.053	- 70
1318		4.78	F 5	12 19 50.569	+3.0156	- 9	+26 8 24.30	-19.981	- 13
1319		6.34	K o	12 22 31.566	+3.1418	+ 3	-27 27 20.37	-19.966	- 20
461 462 463 464 1320	[6 Canum venat.] $\alpha$ Crucis $m$ [323 G. Hydrae] [ $\sigma$ Centauri] [122 G.Centauri]	1.58 2.09 5.68 4.16	K o B i A o B 3 B 8	12 23 14.483 12 23 38.343 12 24 3.695 12 25 9.797 12 25 32.873	+2.9554 +3.3375 +3.1621 +3.2451 +3.1901	- 70 - 39 - 6 - 25 - 25	+39 18 44.66 -62 48 20.59 -32 32 10.93 -49 56 14.23 -38 44 52.39	-19.979 -19.948 -19.962 -19.942 -19.938	- 40 - 12 - 30 - 21 - 20

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o.ooox	Dekl. 1947.0	Jährl. Verände- rung 1947.5	Jährl. Eigen- bew. in o."cox
466 465 467 468 469 1321	20 Comae 8 Corvi [74 Ursae maj.] [7 Crucis] [7 Muscae] [35 G. Corvi]	5.72 3.11 5.44 1.61 4.04 5.76	A 2 A 0 A 5 M 3 B 5 G 5 K 0	h m s 12 27 3.532 12 27 7.071 12 27 29.228 12 28 12.749 12 29 16.477 12 30 49.087	+3.0139 +3.1046 +2.8015 +3.3283 +3.5835 +3.1114	+ 17 -146 - 87 + 39 - 92 - 17 + 12	+21 11 21.84 -16 13 14.04 +58 41 49.72 -56 48 59.63 -71 50 25.36 -12 32 19.51	-19.937 -20.045 -19.810 -20.154 -19.885 -19.811	- 34 -143 + 88 -264 - 6 + 50
1322 470 472 471	[Pi 12 <sup>h</sup> 122 CVen] β Canum venat. κ Draconis β Corvi	5.43 4.32 3.88 2.84	Go B5p G5	12 31 2.402 12 31 13.746 12 31 13.862 12 31 35.893	+2.9547 +2.8487 +2.5604 +3.1521	$ \begin{array}{c c} -631 \\ -117 \\ + 4 \end{array} $	+33 32 24.50 +41 38 42.82 +70 4 48.50 -23 6 13.88	—19.898 —19.569 —19.849 —19.909	$ \begin{array}{r r} -39 \\ +287 \\ +8 \\ -57 \end{array} $
1323	[23 Comae] 24 Comae sq α Muscae [25 Virginis] [χ Virginis]	4.78	A o	12 32 12.657	'+2.9889	- 51	+22 55 14.86	-19.830	+ 15
473		5.18	K o	12 32 28.283	+3.0090	- 4	+18 40 6.89	-19.821	+ 20
474		2.94	B 3	12 33 59.992	+3.5778	- 65	-68 50 37.17	-19.834	- 13
1324		5.90	A o	12 34 3.384	+3.0903	- 22	- 5 32 23.99	-19.842	- 20
475		4.78	K o	12 36 30.459	+3.0968	- 52	- 7 42 15.13	-19.821	- 33
1325	133 G. Centauri [p Virginis] 76 Ursae maj. [330 G. Hydrae] [Y Canum ven.]	5.84	K o	12 38 27.613	+3.2957	- 77	-45 51 20.64	-19.707	+ 54
1326		4.95	A o	12 39 12.072	+3.0366	+ 57	+10 31 38.66	-19.844	- 94
478		5.92	A o	12 39 15.376	+2.6205	- 56	+63 0 13.34	-19.771	- 22
479		5.73	K 2	12 41 10.624	+3.1977	- 27	-28 1 59.91	-19.758	- 38
1327		4.8-6.0	N 3	12 42 38.640	+2.8196	+ 1	+45 43 46.84	-19.687	+ 10
1328	[32 d <sup>2</sup> Virginis] β Crucis [332 G. Hydrae] [35 Virginis] [143 G. Centauri]	5.24	A 5	12 42 56.331	+3.0311	- 73	+ 7 57 46.27	-19.690	+ 2
481		1.50	B 1	12 44 36.526	+3.5059	- 47	-59 23 57.29	-19.677	- 14
1329		6.29	B 9	12 45 4.264	+3.1895	- 31	-24 33 47.48	-19.622	+ 34
1330		6.66	M 0	12 45 9.388	+3.0551	- 5	+ 3 51 42.45	-19.660	- 5
1331		5.01	A 0	12 47 48.171	+3.2555	- 25	-33 42 38.34	-19.631	- 23
1332 1333 482 1334 1335	[31 Comae] [32 Comae] 150 G. Centauri [52 G. Corvi] [\$\psi\$ Virginis]	5.07 6.53 4.34 6.84 4.91	G o K 5 A 5 A o M 3	12 49 7.091 12 49 34.078 12 50 29.548 12 51 12.211 12 51 35.592	+2.9220 +2.9830 +3.3233 +3.1654 +3.1202	$ \begin{array}{rrr}  - & 12 \\  - & 6 \\  + & 58 \\  - & 26 \\  - & 17 \end{array} $	+27 49 43.41 +17 21 42.40 -39 53 27.42 -17 45 1.16 - 9 15 5.31	-19.599 -19.592 -19.583 -19.546 -19.557	- 16 - 17 - 25 - 2 - 20
483	<ul> <li>ε Ursae maj.</li> <li>δ Virginis</li> <li>8 Draconis</li> <li>α Canum ven. sq</li> <li>[44 Virginis]</li> </ul>	1.68	A op	12 51 42.178	+2.6393	+134	+56 14 49.90	-19.544	- 9
484		3.66	M o	12 52 55.919	+3.0221	-314	+ 3 41 6.29	-19.567	- 57
486		5.27	F o	12 53 22.279	+2.3879	- 15	+65 43 32.16	-19.537	- 36
485		2.90	A op	12 53 33.063	+2.8061	-201	+38 36 15.07	-19.447	+ 50
1336		5.88	A o	12 56 55.531	+3.0909	- 26	- 3 31 35.09	-19.422	+ 5
487	[8 Muscae] c Virginis [14 Canum ven.] [Grb 1956 C Ven] [39 Comae]	3.63	K 2	12 58 35.638	+4.1273	+571	-71 15 48.84	-19.421	- 31
488		2.95	K 0	12 59 32.254	+2.9863	-186	+11 14 37.00	-19.350	+ 19
1337		5.11	B 9	13 3 15.865	+2.8051	- 26	+36 4 55.34	-19.267	+ 16
1338		5.72	K 0	13 3 29.352	+2.6988	- 18	+45 33 5.60	-19.253	+ 25
1339		6.04	F 5	13 3 46.216	+2.9235	- 55	+21 26 14.64	-19.317	- 46

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947.5	Jährl. Eigen- bew. in o.ooo1	Dekl. 1947.0	Jährl. Verände- rung 1947.5	Jährl. Eigen- bew. in o!'001
489 1340 490 491 1341 492 493 1342 1343 1344	[ξ² Centauri] [177 G. Centauri]  9 Virginis [17 Canum ven.] [342 G. Hydrae]  β Comae [η Muscae] [195 G. Centauri] [196 G. Centauri] [σ Virginis]	4.40 5.96 4.46 6.05 6.48 4.32 4.95 5.36 5.87 5.01	B 3 B 9 A 0 F 0 A 3 G 0 B 8 K 0 A 3 P	13 3 48.225 13 4 28.496 13 7 12.153 13 7 37.292 13 8 45.925 13 9 24.051 13 11 37.782 13 13 56.078 13 14 8.838 13 14 55.596	+3.5021 +3.5648 +3.1065 +2.7546 +3.2642 +2.7996 +4.0658 +3.3332 +3.4783 +3.0296	- 32 - 41 - 23 - 64 - 41 - 604 - 57 + 30 - 10	-49 37 21.95 -53 10 35.46 - 5 15 23.38 +38 46 48.46 -26 16 13.61 +28 8 46.65 -67 36 51.50 -31 13 34.20 -43 42 0.43 + 5 44 54.96	—19.281 —19.287 —19.222 —19.138 —19.153 —18.253 —19.060 —19.015 —18.968	- 11 - 32 - 35 + 38 - 6 + 877 - 16 - 52 - 13 + 13
494 1345 495 496 1346	[20 Canum ven.] [61 Virginis]	4.66 4.80 3.33 2.91 5.69	F o G 5 G 5 A 2 K o	13 15 10.089 13 15 37.630 13 16 2.103 13 17 36.558 13 17 56.563	+2.6900 +3.1387 +3.2624 +3.3729 +2.6881	-110 -755 + 53 -281 - 53	+40 51 4.16 -18 1 1.38 -22 53 32.94 -36 25 59.76 +40 25 41.45	-18.956 -20.034 -18.998 -18.991 -18.904	+ 18 -1073 - 49 - 87 - 10
1347 497 498 1348 499	[J Centauri] ζ Ursae maj. pr α Virginis [68 Virginis] Grb 2001 UMin	4.62 2.40 1.21 5.59 6.07	B 5 A 2 p B 2 K 2 K 5	13 19 11.330 13 21 47.671 13 22 23.827 13 23 54.894 13 24 46.770	+3.8766 +2.4154 +3.1610 +3.1695 +1.5293	- 39 +140 - 26 - 93 + 39	-60 42 39.62 +55 12 5.94 -10 53 7.01 -12 25 56.95 +72 39 58.85	-18.867 -18.804 -18.794 -18.738 -18.700	- 10 - 25 - 33 - 24 - 13
1349 1350 500 1351 501	[70 Virginis] [+31°2493 CVen] 69 H. Ursae maj. [78 Virginis] ζ Virginis	5.16 7.12 5.41 4.93 3.44	G o K 2 A o A 2 p A 2	13 25 50.199 13 25 51.729 13 26 30.508 13 31 26.640 13 31 59.389	+2.9344 +2.7746 +2.2016 +3.0404 +3.0572	-164 + 2 -110 + 28 -190	+14 3 40.52 +31 25 23.68 +60 13 8.54 + 3 55 49.80 - 0 19 32.32	-19.232 -18.654 -18.598 -18.496 -18.413	- 580 - 2 + 33 - 29 + 36
502 1352 1353 503 505	17 H. Can. ven. [80 Virginis] [Grb 2017 C Ven] [49 G. Chamael.] [Grb 2029 UMin]	4.96 5.75 6.63 6.44 5.67	Fo Ko A5 Ao Ko	13 32 25.880 13 32 45.647 13 32 58.797 13 34 36.590 13 35 54.320	+2.6783 +3.1214 +2.5534 +5.1311 +1.4405	+ 68 + 10 - 21 - 35 - 89	+37 27 12.08 - 5 7 37.21 +44 28 2.54 -75 24 52.18 +71 30 41.78	-18.445 -18.349 -18.403 -18.371 -18.318	- 12 + 73 + 12 - 15 - 6
504 1354 1355 1356 1357	e Centauri [355 G. Hydrae] [82 Virginis] [253 G. Centauri] [83 Virginis]	5.16 6.30 5.71	B I A o M o B 2 G o	13 36 30.920 13 38 34.997 13 38 49.596 13 39 27.152 13 41 37.943	+3.8015 +3.3113 +3.1494 +3.9200 +3.2376	$     \begin{array}{r}       -22 \\       -7 \\       -67 \\       -24 \\       +9     \end{array} $	-53 II 51.23 -23 IO 56.47 - 8 26 IO.68 -56 30 3.88 -15 54 47.84	-18.304 -18.214 -18.173 -18.194 -18.115	— I2
506 1358 507 509 508	[r Centauri] [3 Bootis] τ Bootis η Ursae maj. [μ Centauri]	4.36 5.91 4.51 1.91 3.32	F 5 F 5 F 5 B 3 B 2 p	13 42 40.090 13 44 15.642 13 44 44.555 13 45 27.219 13 46 24.808	+2.8510 +2.3640	$     \begin{array}{r}       -363 \\       -16 \\       -338 \\       -126 \\       -19     \end{array} $	-32 46 35.19 +25 58 2.75 +17 43 12.69 +49 34 38.05 -42 12 37.63	-18.213 -18.068 -17.951 -17.972 -17.944	+ 34 - 14

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947-5	Jährl, Eigen- bew. in o <sup>s</sup> ocor	Dekl. 1947.0	Jährl. Verände- rung 1947.5	Jährl. Eigen- bew. in o″oox
510 1359 511 513 512	89 Virginis [+9° 2814 Bootis] [10 Draconis] η Bootis ζ Centauri	5.11 6.54 4.77 2.80 3.06	Ko Ao Mo Go B2p	13 46 59.188 13 47 6.131 13 49 52.965 13.52 9.606 13 52 13.278	+3.2602 +2.9804 +1.7519 +2.8567 +3.7426	- 70 - 10 - 4 - 44 - 55	-17 52 15.46 + 8 40 15.86 +64 59 4.35 +18 39 45.47 -47 1 41.54	-17.940 -17.892 -17.791 -18.051 -17.728	- 43 - 9 - 362 - 42
514	[294 G. Centauri]	4.68	K o F 2 B 8 F o F 5	13 53 47.369	+4.3415	- 49	-63 25 40.14	-17.652	- 31
1360	[+32°2411 CVen]	6.29		13 53 49.339	+2.6603	-106	+32 17 26.08	-17.575	+ 45
515	[47 Hydrae]	5.17		13 55 32.343	+3.3672	- 32	-24 42 51.38	-17.576	- 28
1361	[48 Hydrae]	5.80		13 57 1.648	+3.3599	-145	-24 45 9.28	-17.584	- 99
1362	[204 G. Virginis]	6.30		13 57 4.286	+3.1088	- 20	- 3 17 32.86	-17.551	- 68
517	rr Bootis τ Virginis β Centauri [ð Apodis] [307 G. Centauri]	6.12	A 3	13 58 46.246	+2.7203	- 63	+27 38 30.53	-17.398	+ 12
516		4.34	A 2	13 58 56.783	+3.0535	+ 11	+ I 48 0.77	-17.426	- 24
518		0.86	B 1	14 0 3.814	+4.2344	- 25	-60 7 5.78	-17.373	- 20
1363		5.5-6.7	M 3	14 0 5.764	+5.8446	-241	-76 32 32.54	-17.386	- 35
1364		6.44	A o p	14 0 13.050	+3.6546	- 40	-4I IO 7.6I	-17.378	- 32
1365	[210 G. Virginis] α Draconis  π Hydrae]   [94 Virginis] ϑ Centauri	6.36	Ko	14 1 34.518	+3.2482	- 26	-14 43 4.25	-17.311	- 24
521		3.64	Aop	14 2 57.088	+1.6242	- 89	+64 37 43.13	-17.213	+ 13
519		3.48	Ko	14 3 20.795	+3.4171	+ 34	-26 25 40.48	-17.352	- 144
1366		6.56	Ao	14 3 29.134	+3.1776	+ 1	- 8 38 22.34	-17.184	+ 18
520		2.26	Ko	14 3 33.282	+3.5310	-427	-36 6 36.42	-17.721	- 522
1367	[+39°2720 CVen] [9 H. Bootis] 12 d Bootis 4 Ursae min. × Virginis	7.90	K o	14 4 13.156	+2.5225	+ 9	+38 40 10.47	-17.176	- 7
1368		5.44	M 3	14 5 48.640	+2.3981	+ 7	+44 6 21.22	-17.126	- 29
522		4.82	F 5	14 7 58.858	+2.7361	- 18	+25 20 31.01	-17.061	- 64
524		5.00	K o	14 9 1.245	-0.2342	-108	+77 47 47.43	-16.922	+ 28
523		4.31	K o	14 10 3.850	+3.2007	+ 5	—10 1 40.61	-16.764	+ 135
525	ι Virginis α Bootis [ι Bootis] λ Bootis [236 G. Virginis]	4.16	F 5	14 13 13.899	+3.1465	- 7	- 5 44 54.44	-17.177	- 428
526		0.24	K o	14 13 14.552	+2.7365	-775	+19 27 27.23	-18.746	-1998
528		4.87	A 5	14 14 17.306	+2.1242	-163	+51 36 39.87	-16.609	+ 89
527		4.26	A o	14 14 22.137	+2.2806	-182	+46 19 51.55	-16.536	+ 158
1369		5.74	A op	14 15 42.051	+3.3178	- 46	-18 28 17.53	-16.672	- 42
1370	[A Bootis] [λ Virginis] [υ Centauri] [18 Bootis] [ψ Centauri]	4.83	K o	14 15 45.340	+2.5357	- 3	+35 45 11.80	-16.615	+ 12
1371		4.60	A 2	14 16 14.228	+3.2466	- 12	-13 7 41.23	-16.579	+ 24
529		4.41	B 5	14 16 36.325	+4.1895	- 22	-56 8 36.48	-16.599	- 14
1372		5.31	F o	14 16 42.265	+2.9036	+ 71	+13 14 52.49	-16.615	- 34
1373		4.17	A o	14 17 19.433	+3.6488	- 58	-37 38 33.04	-16.560	- 10
1374	[2 Librae] [10 G. Circini] [244 G. Virginis] [3 G. Librae] [1 Lupi]	6.30	Ko	14 20 34.225	+3.2286	- 8	-11 28 22.68	-16.451	- 63
530		5.71	A2p	14 20 40.632	+4.9724	- 23	-67 57 20.57	-16.395	- 14
1375		5.08	A3	14 21 32.930	+2.9856	- 54	+ 6 3 34.73	-16.334	+ 5
1376		5.39	Ko	14 21 46.795	+3.4236	- 40	-24 34 0.72	-16.354	- 27
1377		4.65	B3	14 22 43.395	+3.8509	- 14	-44 58 57.89	-16.293	- 15

-			1636						515-35
Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947-5	Jährl: Eigen- bew. in o!"0001	Dekl. 1947.0	Jährl. Verände- rung 1947.5	Jährl. Eigen- bew. in o"cor
531 1378 532 533 1379	<ul> <li>Bootis</li> <li>[22 Bootis]</li> <li>[52 Hydrae]</li> <li>[\tilde{\phi} Virginis]</li> <li>[5 Ursae min.]</li> </ul>	4.06 5.36 5.00 4.99 4.37	F 8 A 5 B 8 K 0 K 2	h m a 14 23 23.491 14 23 59.354 14 25 3.726 14 25 28.094 14 27 36.557	+2.0422 +2.7905 +3.5142 +3.0916 -0.1266	<ul> <li>- 260</li> <li>- 52</li> <li>- 18</li> <li>- 92</li> <li>+ 12</li> </ul>	+52 5 42.21 +19 27 51.31 -29 15 16.21 - 1 59 28.81 +75 55 53.81	-16.646 -16.193 -16.184 -16.142 -16.007	- 401 + 21 - 26 - 4 + 21
534 535 536 537 1380	ρ Bootis γ Bootis [Grb 2125 Draco] η Centauri [σ Bootis]	3.78 3.00 6.18 2.65 4.48	K o F o F o B 3 P +A 2 P F o	14 29 32.691 14 29 56.595 14 30 16.293 14 32 7.878 14 32 22.316	+2.5854 +2.4156 +1.6285 +3.8098 +2.6124	- 79 - 98 - 72 - 30 + 146	+30 36 11.59 +38 32 21.38 +60 27 30.76 -41 55 34.24 +29 58 28.09	-15.807 -15.754 -15.872 -15.820 -15.645	+ 117 + 149 + 14 - 35 + 128
1381 538 540 539 541	[ro G. Librae] *α Centauri [33 Bootis] [α Circini] [α Lupi]	6.24 0.33 1.70 5.39 3.42 2.89	F 8 G 0 K 5 A 0 F 0 B 2	14 34 10.346 14 35 59.072 14 36 51.825 14 38 11.813 14 38 23.562	+3.1924 +4.0782 +2.2324 +4.8480 +3.9904	- 591 4887 - 68 - 295 - 16	-12 4 52.07 -60 37 4.67 +44 37 57.13 -64 44 45.27 -47 9 42.86	-15.314 -14.866 -15.547 -15.689 -15.460	+ 360 + 709 - 20 - 237 - 19
1382 545 544 1383 542	32 Bootis μ Virginis [371 G. Centauri] [34 Bootis] α Apodis		G5 F5 K0 M0 K5	14 39 10.621 14 40 15.798 14 40 24.431 14 41 5.542 14 41 10.617	+2.8824 +3.1621 +3.6696 +2.6368 +7.4476	- 108 + 71 - 52 - 10 - 8	+11 53 16.55 - 5 25 44.00 -34 56 47.95 +26 45 8.01 -78 49 19.84	-15.516 -15.659 -15.515 -15.310 -15.304	- 118 - 322 - 186 - 19 - 21
1384 546 547 1385 1386	[+33°2489 Boot] [30 G. Lupi] 109 Virginis [56 Hydrae] [Grb2152 Boot]	6.47 5.20 3.76 5.39 5.98	Mo Ko Ao G5 Fo	14 43 0.601 14 43 17.956 14 43 33.991 14 44 38.776 14 47 1.803	+2.5096 +4.1956 +3.0335 +3.5029 +2.3553	+ 30 - 24 - 74 + 32 - 220	+33 0 42.66 -52 9 37.88 + 2 6 54.44 -25 51 59.00 +38 I 43.50	-15.264 -15.247 -15.181 -15.089 -14.842	- 82 - 83 - 31 - 1 + 108
1387 548 549 550 1388	[α¹ Librae] α² Librae Grb 2164 Draco β Ursae min. [-6°2957 Virgo]	5.33 2.90 5.67 2.24 6.69	F 5 A 3 K 2 K 5 K o	14 47 45.003 14 47 56.490 14 50 5.457 14 50 50.169 14 51 2.275	+3.3187 +3.3193 +1.5228 -0.1747 +2.9687	<ul> <li>69</li> <li>73</li> <li>167</li> <li>84</li> <li>19</li> </ul>	-15 46 41.20 -15 49 21.74 +59 30 31.51 +74 22 19.69 + 6 27 26.36	-14.983 -14.968 -14.637 -14.719 -14.706	- 75 - 71 + 134 + 9 + 8
1389 .551 1390 1391 1392	[381 G. Centauri] Pi 14 <sup>h</sup> 221 Boot [ξ <sup>2</sup> Librae] [33 G. Librae] [Pi 14 <sup>h</sup> 227 Boot]	5.77 5.63 6.00	A o A o K o K 5 A o	14 52 29.060 14 53 43.002 14 53 53.264 14 54 21.909 14 54 40.248	+3.6832 +2.8319 +3.2556 +3.5045 +2.7038	+ 21 - 10 + 4 + 743 - 10	-33 38 30.56 +14 39 33.93 -11 11 49.10 -21 10 39.67 +21 46 5.58	-14.633 -14.558 -14.539 -16.254 -14.522	- 5 - 4 + 4 -1739 - 25
1393 552 553 554 1394	[Br 1908 Virgo] β Lupi [κ Centauri] [2 H. Ursae min.] [δ Librae]		K o B 2 p B 3 M 3 A o	14 54 49.997 14 55 2.974 14 55 42.202 14 56 43.936 14 58 8.190	+3.0767 +3.9292 +3.9034 +0.9538 +3.2057	+ 42 - 37 - 15 - 138 - 44	+ 0 2 41.60 -42 55 18.36 -41 53 34.32 +66 8 35.17 - 8 18 35.32	-14.514 -14.514 -14.461 -14.347 -14.294	+ 26

Nr. 538. Ort des Schwerpunktes. Die Reduktion auf den Ort des helleren Sternes beträgt nach den Elementen von Finsen, Union Observ. Greular 68, 1926:

1947.0  $\Delta \alpha = -0.144$   $\Delta \delta = -4.34$ 1948.0 = -0.174 = -4.48

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947.5	Jährl, Eigen- bew. in	Dekl. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o"coi
555 556 557 1395 1397 1396 1398 558	β Bootis σ Librae ψ Bootis [47 Bootis] [+55° 1730 Boot] [45 Bootis] [κ¹ Lupi] ζ Lupi	3.4I 4.67 5.59 5.2I 5.03 4.I4 3.50	G 5 M 3 K 0 A 0 G 5 F 0 B 9 K 0	14 59 56.892 15 0 57.708 15 2 10.382 15 3 40.417 15 4 45.718 15 4 58.297 15 8 14.240 15 8 27.802	+2.2597 +3.5120 +2.5708 +1.9871 +1.7134 +2.6352 +4.1705 +4.3100	- 40 - 53 -133 - 68 + 51 +135 -100 -121	+40 35 55.36 -25 4 29.93 +27 9 11.84 +48 21 17.97 +54 45 34.63 +25 4 28.20 -48 32 16.10 -51 53 56.52	-14.208 -14.158 -14.045 -13.914 -13.865 -14.034 -13.703 -13.703	- 33 - 48 - 9 + 29 + 9 -174 - 51 - 67
559 1399 562 561 563 560 565	[ι Librae] [ι Lupi] [3 Serpentis] [β Circini] δ Bootis γ Triang. austr. ι H. Ursae min.	4.66 4.95 5.44 4.16 3.54 3.06 5.23	A op F o K o A 3 K o A o G o	15 9 11.680 15 11 22.085 15 12 33.099 15 13 20.774 15 13 21.863 15 13 55.812 15 14 1.168	+3.4202 +3.6759 +2.9824 +4.6967 +2.4188 +5.6014 +0.6886	$ \begin{array}{rrr}  - 27 \\  - 2 \\  - 14 \\  - 126 \\  + 66 \\  - 105 \\  + 372 \end{array} $	-19 35 32.81 -31 19 21.51 + 5 8 5.76 -58 36 17.99 +33 30 41.41 -68 29 8.67 +67 32 51.82	-13.633 -13.453 -13.372 -13.459 -13.439 -13.309 -13.670	- 42 - 2 + 1 -138 -118 - 27 -391
564 1400 1401 1402 566	β Librae [Pi 15 <sup>h</sup> 36 Serp] [+10° 2823 Serp] [δ Lupi] φ <sup>1</sup> Lupi	2.74 5.66 6.71 3.43 3.59	B 8 G 5 F 8 B 2 K 5	15 14 9.044 15 16 1.820 15 16 9.230 15 17 53.027 15 18 26.062	+3.2287 +2.6900 +2.8777 +3.9381 +3.8068	- 66 - 9 - 63 - 13 - 79	- 9 11 19.07 +20 45 55.56 +10 37 11.61 -40 27 25.48 -36 4 13.93	-13.292 -13.169 -13.136 -13.049 -13.073	- 23 - 23 + 1 - 27 - 87
1403 1404 1405 569 1406	[\phi^2 Lupi] [73 G. Librae] [30 Librae] \( \gamma \text{Ursae min.} \] [8 Serpentis]	4.69 6.78 6.74 3.14 6.10	B3 K0 K2 A2 F0	15 19 45.672 15 19 46.722 15 20 4.116 15 20 47.636 15 20 59.564	+3.8334 +3.5857 +3.3464 -0.0949 +3.0932	- 14 + 24 - 2 - 48 + 49	-36 40 11.54 -26 30 2.35 -14 56 46.55 +72 1 21.45 - 0 50 4.52	-12.922 -12.904 -12.866 -12.811 -12.846	$ \begin{array}{r} -25 \\ -8 \\ +11 \\ +19 \\ -31 \\ +83 \end{array} $
568 570 571 1407 572	μ Bootis pr [τ¹ Serpentis] ι Draconis [32 Librae] β Coronae bor.	4.47 5.46 3.47 5.92 3.72	Fo Mo Ko Ko Fop	15 22 29.201 15 23 19.764 15 23 44.747 15 25 15.750 15 25 38.527	+2.2665 +2.7826 +1.3347 +3.3839 +2.4737	-124 - 12 - 16 + 10. -138	+37 33 43·37 +15 36 47·46 +59 9 3·99 -16 31 59·10 +29 17 14·44	-12.671' -12.617 -12.562 -12.418	- 14 + 13 - 36 + 82
567 1408 573 576 1409	[x¹ Apodis] [+9° 3055 Serp] v¹ Bootis [9 Coronae bor.] [37 Librae]	5.65 6.46 5.15 4.17 4.83	B 5 P F 2 K 5 B 5 K 0	15 25 41.487 15 28 20.895 15 29 1.421 15 30 47.437 15 31 16.619	+6.5375 +2.9132 +2.1550 +2.4191 +3.2792	+ 15 + 24 + 7 - 19 +204	-73 12 30.44 + 8 45 32.98 +41 0 46.23 +31 32 12.78 - 9 53 3.34 -66 8 27.91	-12.527 -12.316 -12.275 -12.163 -12.352 -12.138	$ \begin{array}{c c} -34 \\ -2 \\ -7 \\ -18 \\ -241 \\ -69 \end{array} $
574 578 577 1410 579	[ε Triang.austr.] α Coronae bor. γ Librae 115 G. Lupi [υ Librae]	4.11 2.31 4.02 5.47 3.78	K o K o K 5 K 2	15 31 50.615 15 32 26.532 15 32 33.403 15 32 33.651 15 33 48.039	+5.4898 +2.5402 +3.3564 +4.1090 +3.6428	+ 45 + 90 + 43 - 48 - 4	-00 8 27.91 +26 53 31.10 -14 36 51.22 -44 13 14.38 -27 57 39.63	-12.136 -12.121 -12.020 -12.064 -11.935	- 9I + I - 44

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947:5	Jährl. Eigen- bew. in o <sup>5</sup> 0001	Dekl. 1947.0	Jährl. Verände- rung 1947.5	Jährl. Eigen- bew. in o!oor
1411	[2 G. Normae] [φ Bootis] [Pi 15 <sup>h</sup> 153 Boot] [κ Librae] α Serpentis	5.48	A o	15 34 52.369	+4.4582	- 39	-52 11 58.71	-11.898	- 40
580		5.41	G 5	15 35 55.282	+2.1546	+ 52	+40 31 29.99	-11.729	+ 56
1412		5.78	F o	15 36 34.221	+1.9212	+ 81	+46 58 17.50	-11.866	- 126
1413		4.96	K 5	15 38 53.261	+3.4571	- 27	-19 30 30.83	-11.684	- 111
582		2.75	K o	15 41 39.292	+2.9553	+ 92	+ 6 35 27.92	-11.330	+ 45
583	β Serpentis [12 H. Draconis] ζ Ursae min. κ Serpentis μ Serpentis	3.74	A 2	15 43 44.369	+2.7692	+ 48	+15 35 11.19	-11.273	- 48
587		5.13	A 2	15 45 51.079	+0.9144	+ 48	+62 45 46.36	-11.133	- 61
590		4.34	A 2	15 45 54.260	-2.1426	+ 52	+77 57 30.31	-11.074	- 4
584		4.28	K 5	15 46 21.123	+2.7008	- 34	+18 18 14.61	-11.124	- 89
585		3.63	A 0	15 46 51.061	+3.1313	- 58	- 3 16 9.95	-11.027	- 28
586	[χ Lupi] ε Serpentis [κ Coronae bor.] [λ Librae] β Triang. austr.	4.II	B 9	15 47 35.013	+3.8124	- 8	-33 28 2.43	-10.976	- 32
588		3.75	A 2	15 48 10.277	+2.9908	+ 85	+ 4 38 9.42	-10.839	+ 63
1414		4.77	K 0	15 49 13.986	+2.2606	- 10	+35 49 14.58	-11.177	- 353
1415		5.06	B 3	15 50 15.156	+3.4833	- 7	-20 0 36.51	-10.777	- 28
589		3.04	F 0	15 50 27.099	+5.2858	-282	-63 16 9.11	-11.125	- 394
1416	[χ Herculis] [γ Serpentis] [48 Librae] ε Coronae bor. [π Scorpii]	4.61	Go	15 50 50.453	+2.0739	+393	+42 35 56.00	-10.078	+ 628
591		3.86	F5	15 54 0.153	+2.7714	+213	+15 49 59.87	-11.757	-1286
1417		4.68	B3p	15 55 13.022	+3.3600	- 10	-14 7 40.77	-10.401	- 22
593		4.22	Ko	15 55 23.470	+2.4838	- 61	+27 I 48.63	-10.431	- 64
592		3.00	B2	15 55 38.410	+3.6298	- 6	-25 57 46.97	-10.372	- 25
1418	[144 G. Lupi]	5.07	G 5	15 55 53.227	+4.0875	- 22	-41 35 38.16	-10.339	- 10
595	[Grb 2296 Draco]	4.96	A 5	15 56 31.708	+1.4229	-185	+54 53 55.66	-10.176	+ 106
594	& Scorpii	2.54	B 0	15 57 11.681	+3.5480	- 5	-22 28 20.79	-10.258	- 27
1419	[49 Librae]	5.53	F 8	15 57 20.853	+3.3670	-441	-16 22 43.55	-10.617	- 397
1420	[50 Librae]	5.55	A 0	15 57 55.714	+3.2393	- 12	- 8 15 46.58	-10.194	- 18
598 597 596 599 1421	<ul> <li>Φ Draconis</li> <li>β Scorpii pr</li> <li>[δ Normae]</li> <li>[Φ Lupi]</li> <li>[κ Herculis pr]</li> </ul>	4.11 2.90 4.84 4.33 5.34	F 8 B 1 A 3 p B 3 G 5	16 0 53.464 16 2 21.044 16 2 44.166 16 3 6.272 16 5 40.859	+1.1240 +3.4889 +4.2401 +3.9395 +2.7079	-413 - 2 + 4 - 17 - 25	+58 42 22.49 -19 39 42.99 -45 1 52.23 -36 39 35.16 +17 11 12.48	- 9.618 - 9.862 - 9.780 - 9.818 - 9.598	+ 335 - 22 + 31 - 36 - 11
1422	[+6° 3169 Serp] [τ Coronae bor.] [φ Herculis] [κ Normae] [δ Triang. austr.]	6.02	G5	16 6 34.435	+2.9544	+157	+ 6 31 42.79	-10.241	- 723
1423		4.94	Ko	16 7 1.885	+2.1934	- 48	+36 37 27.84	- 9.158	+ 325
601		4.26	B9p	16 7 5.836	+1.8901	- 28	+45 4 22.54	- 9.443	+ 35
600		5.09	Ko	16 9 17.141	+4.7309	- 11	-54 29 43.53	- 9.333	- 26
602		4.03	Go	16 10 35.714	+5.4604	+ 10	-63 33 9.51	- 9.219	- 15
603 606 1424 1425 605	δ Ophiuchi 19 Ursae min. [δ¹ Apodis] [17 Herculis] ε Ophiuchi	3.03 5.51 4.78 6.59 3.34	M o B 8 M 3 K o K o	16 11 33.896 16 12 18.310 16 12 21.101 16 14 0.987 16 15 30.825	-1.7102 +8.9637 +2.5582	$ \begin{array}{r r}  - 31 \\  - 15 \\  - 23 \\  - 12 \\  + 55 \end{array} $	- 3 33 33.66 +76 0 42.55 -78 33 58.39 +23 15 11.59 - 4 33 53.21	- 9.063 - 9.103 - 8.954	- 37 - 14

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947.5	Jährl. Eigen- hew. in o!ooo1	Dekl. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o."oor
604 1426 607 608 612 1427 609 1428 1429	γ <sup>2</sup> Normae [55 G. Scorpii sq] [σ Scorpii] τ Herculis [η Ursae min.] [σ Serpentis] γ Herculis [23 Herculis] [21 Herculis]	m 4.14 5.69 3.10 3.91 5.04 4.80 3.79 6.30 5.72	Ko F2 B1 B5 F0 F0 A2 A0	16 15 51.839 16 16 11.226 16 17 57.720 16 18 8.715 16 19 1.538 16 19 23.120 16 19 34.794 16 20 54.265 16 21 35.758	+4.4886 +3.7956 +3.6469 +1.8035 -1.7531 +3.0383 +2.6466 +2.3025 +2.9225	-170 + 66 - 7 - 12 -230 -106 - 35 + 9 - 1	-50° 1′ 39.09 -30° 46° 47.50 -25° 28° 2.34 +46° 26° 19.31 +75° 52° 41.53 + 1° 9° 7.77 +19° 16° 34.76 +32° 27° 19.99 + 7° 4° 9.73	-8".847 -8.748 -8.653 -8.579 -8.298 -8.468 -8.458 -8.408 -8.324	- 54 + 21 - 24 + 37 +250 + 50 + 44 - 10 + 18
610 613 614 611 616 1430	[ζ Triang. austr.] [ω Herculis] [Grb 2343 Draco] γ Apodis α Scorpii [22 G. Ophiuchi]	4.93 4.53 5.66 3.90 1.22 5.75	Go Aop A 2 Ko Mo +A3 Go	16 22 44.526 16 22 58.048 16 23 15.564 16 25 15.149 16 26 9.208 16 26 46.916	+6.4540 +2.7688 +1.3126 +9.2037 +3.6792 +3.3912	+403 + 27 + 13 -408 - 2 + 20	-69 58 4.13 +14 9 14.23 +55 19 29.74 -78 46 55.96 -26 18 57.98 -14 26 9.70	-8.143 -8.292 -8.193 -8.113 -8.000 -7.911	+105 - 59 + 17 - 68 - 23 + 16
1431 618 619 1432 621	[N Scorpii] β Herculis A Draconis Pi 16 <sup>h</sup> 140 Draco σ Herculis	4.33 2.81 4.98 5.85 4.25	B3 Ko B8p Ao	16 27 54.784 16 27 56.367 16 28 4.530 16 31 40.358 16 32 23.527	+3.9208 +2.5790 -0.1170 +0.8474 +1.9342	$ \begin{array}{r} - & 6 \\ - & 72 \\ - & 53 \\ + & 18 \\ - & 12 \end{array} $	-34 35 26.37 +21 36 13.73 +68 52 58.24 +60 56 2.03 +42 32 43.34	-7.851 -7.850 -7.791 -7.547 -7.432	- 15 - 16 + 34 - 13 + 43
620 623 433 622 4434	[τ Scorpii] [Grb 2373 U Min] [12 Ophiuchi] ζ Ophiuchi [42 Herculis]	2.91 6.39 5.87 2.70 5.14	Bo G5 Ko Bo Mo	16 32 34.698 16 32 53.406 16 33 34.219 16 34 14.226 16 37 18.381	+3.7352 -2.5805 +3.1514 +3.3037 +1.6288	$ \begin{array}{rrr} - & 5 \\ -327 \\ +302 \\ + & 8 \\ - & 48 \end{array} $	-28 6 28.15 +77 33 11.53 - 2 12 46.99 -10 27 40.89 +49 1 52.50	-7.483 -7.164 -7.693 -7.300 -7.042	$ \begin{array}{r} -25 \\ +274 \\ -315 \\ +24 \\ +32 \end{array} $
624 626 625 627 1436	[Br 2114 Ophi] η Herculis α Triang. austr. Grb 2377 Draco [19 Ophiuchi]	5.04 3.61 1.88 4.88 6.04	K o K o K 2 F o A 2	16 38 30.224 16 41 4.615 16 43 2.003 16 44 17.238 16 44 29.237	+3.4700 +2.0568 +6.3538 +1.1379 +3.0240	- 16 + 29 + 51 + 17 - 16	-17 38 28.60 +39 1 19.35 -68 56 0.02 +56 52 33.68 + 2 9 31.05	-6.978 -6.848 -6.633 -6.436 -6.495	$ \begin{vmatrix}  -3 \\  -83 \\  -33 \\  +65 \\  -12 \end{vmatrix} $
1435 1437 628 1438 1439	[η Arae] [-21°4422 Ophi] ε Scorpii [20 Ophiuchi] [μ¹ Scorpii]	3.68 7.60 2.36 4.73 3.09	K 5 M 0 K 0 F 5 B 3 p	16 45 11.821 16 46 25.106 16 46 43.550 16 46 53.907 16 48 16.485	+5.1799 +3.5786 +3.8863 +3.3191 +4.0643	+ 43 - 8 -490 + 63 - 8	-58 56 56.96 -21 45 39.52 -34 11 55.80 -10 41 27.37 -37 57 30.26	-6.452 -6.343 -6.549 -6.380 -6.196	- 30 - 20 -253 - 97 - 28
1440 629 1441 1442 1443	[51 Herculis] 49 Herculis [53 Herculis] [1 Ophiuchi] [51 G. Apodis]	5.20 6.41 5.35 4.29 7.00	Ko Aop Fo B8 F8	16 49 33.331 16 49 39.933 16 50 57.315 16 51 29.882 16 53 35.000	+2.4871 +2.7314 +2.2746 +2.8388 +8.2526	+ 9 + 10 - 78 - 35 - 97	+24 44 39.57 +15 3 42.34 +31 47 17.55 +10 15 4.19 -76 8 11.26	-6.054 -6.050 -5.965 -5.937 -5.870	+ 9 + 3 - 20 - 37 - 149

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947.5	Jährl. Eigen- bew. in o.ooo1	Dekl. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o."oor
1444	24 G. Arae	5.70	B 9	16 54 12.053	+ 4.6298	14	-50 33 34.53	-5.717	- 44
631	ζ Arae	3.06	K 5	16 54 13.513	+ 4.9648	20	-55 54 31.41	-5.702	- 33
633	× Ophiuchi	4.1-5.0	K 0	16 55 9.443	+ 2.8397	199	+ 9 27 21.61	-5.602	- 8
632	[ε <sup>1</sup> Arae]	4.15	K 2	16 55 21.083	+ 4.7815	0	-53 4 52.30	-5.558	+ 17
634 1445 1446 635 1448 1447	E Herculis  [30 Ophiuchi]  [59 Herculis]  [60 Herculis]  [Pi 16h 307 Herc]  [80 G. Ophiuchi]		A o K o A 2 A 3 A o A o	16 58 15.579 16 58 15.718 16 59 38.829 17 2 55.097 17 3 27.946 17 3 35.966	+ 2.2952 + 3.1632 + 2.2142 + 2.7821 + 1.8270 + 3.7180	- 40 - 34 - 4 + 33 0 + 2	+31 0 11.89 - 4 8 41.11 +33 38 37.62 +12 48 43.97 +43 52 59.78 -26 26 35.23	-5.304 -5.410 -5.220 -4.947 -4.893 -4.899	+ 28 - 78 - 4 - 8 - 1 - 19
1449	85 G. Ophiuchi	6.14	Ko	17 5 9.998	+ 3.4837	+ 2	-17 32 26.06	-4.782	- 35
636	[Grb 2415 Herc]	6.27	A 2	17 6 2.852	+ 1.9568	- 34	+40 35 3.50	-4.706	- 33
1450	[88 G. Ophiuchi]	5.58	F 5	17 6 51.977	+ 3.3170	+ 38	-10 27 20.38	-4.704	- 101
638	[η Scorpii]	3.44	F 2	17 8 21.116	+ 4.2972	+ 22	-43 10 16.73	-4.758	- 283
639	ζ Draconis	3.22	B 5	17 8 37.656	+ 0.1740	- 32	+65 46 47.32	-4.434	+ 21
1451	[97 G. Ophiuchi] 8 Herculis 7 Herculis [139 G. Scorpii] [U Ophiuchi]	6.39	Ko	17 9 11.741	+ 2.8928	+ 18	+ 7 57 28.03	-4.393	+ II
641		3.16	A 2	17 12 51.161	+ 2.4642	- 18	+24 54 1.43	-4.250	- I58
643		3.36	K 5	17 13 11.947	+ 2.0894	- 25	+36 52 4.11	-4.059	+ 4
1452		5.55	F 5	17 13 36.555	+ 3.9029	- 76	-32 36 17.42	-4.079	- 53
1453		5.7-6.4	B 8	17 13 50.216	+ 3.0438	- 5	+ 1 16 4.92	-4.024	- I6
642	[ι Apodis] Pi 17 <sup>h</sup> 68 Herc [72 Herculis] Prophinch Arae	5.60	B 8	17 16 10.433	+ 6.6928	+ 12	-70 4 14.58	-3.819	- 14
1454		5.17	M o	17 17 58.591	+ 2.6437	+ 2	+18 6 36.88	-3.707	- 54
1456		5.36	G o	17 18 40.422	+ 2.2444	+ 97	+32 32 4.97	-4.635	-1042
644		3.37	B 3	17 18 45.100	+ 3.6846	- 2	-24 56 54.42	-3.606	- 21
645		2.80	K 2	17 20 53.280	+ 4.9872	- 7	-55 28 55.87	-3.425	- 25
1455 1457 1458 647 1459	[59 G. Apodis] [44 Ophiuchi] [138 G.Ophiuchi] [27 H. Ophiuchi] [6 Ophiuchi]		M3 Fo F5 Fo Ko	17 21 30.200 17 23 7.832 17 23 12.692 17 23 49.001 17 23 52.959	+11.2245 + 3.6640 + 3.1151 + 3.1832 + 2.9766	+ 26 0 + 48 - 64 - 1	-80 48 55.63 -24 7 42.13 - 1 36 25.70 - 5 2 28.92 + 4 II 5.52	$ \begin{array}{r rrrr} -3.384 \\ -3.324 \\ -3.154 \\ -3.193 \\ -3.137 \end{array} $	- 41 - 116 + 47 - 44 + 6
646	[45 Ophiuchi] [77 Herculis] 8 Arae [0 Scorpii] α Arae	4·37	F 5	17 23 58.013	+ 3.8312	+ 15	-29 49 15.52	-3.276	- 141
650		5·81	A 2	17 25 19.796	+ 1.5900	- 4	+48 18 13.21	-3.026	- 7
648		3·79	B 8	17 26 18.490	+ 5.4164	- 66	-60 38 31.58	-3.020	- 89
649		2.80	B 3	17 27 9.417	+ 4.0791	0	-37 15 19.84	-2.890	- 31
651		2·97	B 3 p	17 27 44.423	+ 4.6380	- 28	-49 50 11.07	-2.881	- 72
1460 653 652 655 657	[λ Herculis]   β Draconis   λ Scorpii   [ν¹ Draconis]   [ν² Draconis]	4.48 2.99 1.71 4.98 4.95	K o G o B 2 A 5 A 5	17 28 35.670 17 29 13.960 17 30 0.384 17 31 7.757 17 31 13.187	+ 2.4244 + 1.3554 + 4.0740 + 1.1810 + 1.1821	+ 11 - 21 0 +165 +168	+26 8 57.59 +52 20 23.66 -37 4 1.62 +55 13 11.40 +55 12 30.17	$ \begin{array}{r rrrr} -2.718 \\ -2.669 \\ -2.640 \\ -2.463 \\ -2.457 \end{array} $	+ 18 + 13 - 28 + 54 + 53

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in	Dekl. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew.i i
1462 1461 659 656 654 658 664	[Grb 2444 Herc] [-11°4411 Serp] [27 Draconis] α Ophiuchi ϑ Scorpii ξ Serpentis ω Draconis	5.82 5.68 5.21 2.14 2.04 3.64 4.87	K o B 8 K o A 5 F o A 5 F 5	17 31 26.228 17 31 49.323 17 32 10.268 17 32 28.346 17 33 30.425 17 34 32.964 17 37 15.412	+1.9022 +3.3350 -0.2406 +2.7848 +4.3109 +3.4350 -0.3514	- 71 - 10 - 30 + 80 + 15 - 32 + 2	+41 16 47.59 -11 12 27.85 +68 10 8.08 +12 35 49.78 -42 57 58.11 -15 22 1.07 +68 46 57.54	-2.554 -2.450 -2.294 -2.626 -2.306 -2.280 -1.663	- 64 + 6 +134 -226 + 3 - 61
663 660 662	ι Herculis [κ Scorpii] [μ Arae]	3.79 2.51 5.26	B 3 B 2 G 5	17 37 15.412 17 37 57.990 17 38 49.089 17 39 55.946	+1.6934 +4.1503 +4.7631	$\begin{bmatrix} - & 2 \\ - & 9 \\ - & 5 \\ - & 21 \end{bmatrix}$	+46 2 1.05 -39 0 17.10 -51 48 29.02	-1.919 -1.875 -1.937	+323 + 4 - 28 -188
661 665 670 666	[58 Ophiuchi] η Pavonis β Ophiuchi ψ Draconis pr [ι¹ Scorpii]	4.89 3.58 2.94 4.90 3.14	F 5 K 0 K 0 F 5 F 5 p	17 40 15.113 17 40 31.600 17 40 51.151 17 42 52.511 17 43 52.507	+3.5952 +5.8896 +2.9636 -1.0668 +4.1962	$ \begin{array}{r} -67 \\ -4 \\ -28 \\ +39 \\ +2 \end{array} $	-21 39 33.47 -64 42 4.59 + 4 35 16.34 +72 10 31.51 -40 6 30.59	-1.771 -1.747 -1.512 -1.763 -1.410	- 48 - 50 +159 -267 - 4
1464 667 668 1465 669	[X Sagittarii]  μ Herculis  [γ Ophiuchi]  [+20° 3570 Herc]  [G Scorpii]	3.48 3.74 5.77 3.25	F8v G5 A0 K0 K2	17 44 13.317 17 44 22.933 17 45 14.001 17 46 8.187 17 46 14.937	+3.7762 +2.3480 +3.0081 +2.5733 +4.0844	$ \begin{array}{r} -2 \\ -238 \\ -16 \\ +9 \\ +51 \end{array} $	-27 48 45.03 +27 45 1.92 + 2 43 32.48 +20 34 53.84 -37 1 42.10	-1.385 -2.107 -1.360 -1.210 -1.165	- 9 -744 - 71 0 + 34
1466 675 1467 671 1468	[+9° 3485 Ophi] 35 Draconis [-7° 4523 Ophi] 5 Draconis [89 Herculis]	6.79 5.04 6.87 3.90 5.48	K 5 F 5 G 5 K 0 F 5 p	17 47 38.605 17 51 49.033 17 52 5.249 17 52 36.605 17 53 16.775	+2.8385 -2.6867 +3.2509 +1.0371 +2.4199	- 27 +109 - 35 +110 - 2	+ 9 51 46.91 +76 58 16.50 - 7 43 29.49 +56 52 49.32 +26 3 25.82	-1.130 -0.471 -0.747 -0.570 -0.580	$   \begin{array}{r}     -52 \\     +246 \\     -57 \\     +76 \\     +6   \end{array} $
672 676 674 673 1469	<ul> <li>θ Herculis</li> <li>γ Draconis</li> <li>[ξ Herculis]</li> <li>ν Ophiuchi</li> <li>[93 Herculis]</li> </ul>	3.99 2.42 3.82 3.50 4.71	Ko Ko Ko Ko	17 54 26.013 17 55 22.403 17 55 42.217 17 56 6.423 17 57 41.768	+2.0572 +1.3928 +2.3312 +3.3026 +2.6705	- I - I3 + 62 - 6 - 5	+37 15 23.13 +51 29 39.82 +29 15 8.41 - 9 46 7.83 +16 45 9.01	-0.479 -0.424 -0.393 -0.458 -0.210	+ 6 - 20 - 18 120 11
677 1470 679 1471 678	67 Ophiuchi [6 Sagittarii] γ Sagittarii [& Arae] [66 G. Apodis]	3.95 6.31 3.07 3.90 5.69	B 5 p K 2 K 0 B 1 p K 5	17 57 59.325 17 58 18.233 18 2 24.115 18 2 30.208 18 3 50.927	+3.0044 +3.4855 +3.8538 +4.6696 +8.3952	- 4 - 2 - 41 - 14 + 45	+ 2 55 57.08 -17 9 23.89 -30 25 35.92 -50 5 50.26 -75 53 48.05	-0.184 -0.153 +0.028 +0.204 +0.064	- 10 - 7 -185 - 18 -278
680 681 1472 1473 682	72 Ophiuchi o Herculis [—13°4863 Serp] [ε Telescopii] μ Sagittarii	3.73 3.83 6.50 4.60 4.01	A 3 A 0 K 0 K 0 B 8 p	18 4 50.127 18 5 28.397 18 6 42.720 18 7 17.650 18 10 35.554	+2.8441 +2.3400 +3.4049 +4.4530 +3.5876	- 43 - 3 + 1 - 15 + 1	+ 9 33 17.43 +28 45 14.28 -13 56 41.75 -45 57 56.66 -21 4 28.40	+0.507 +0.489 +0.591 +0.610 +0.928	+ 82 + 9 + 1 - 32 - 1

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o <sup>s</sup> coor	Dekl. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o!'oor
1474 685 684 683	[6 G. Telescopii] 36 Draconis [Grb 2533 Lyra] [ŋ Sagittarii]	5.54 5.03 5.42 3.16	B 5 F 5 B 5 M 3	h m s 18 12 39.547 18 13 35.402 18 13 59.742 18 14 2.374	+5.0521 +0.3448 +1.8657 +4.0592	- 22 + 529 - 7 - 109	-56° 2' 32'.43 +64 22 44.73 +42 8 24.70 -36 46 46.51	+1.219 +1.220 +1.066	- 12 + 31 - 4 -164
1475 687 1477 1476 686 688	[Br 2292 Serp] [8 Sagittarii] [x Lyrae] [74 Ophiuchi] [E Pavonis]  y Serpentis	6.30 2.84 4.34 4.92 4.25 3.42	А 5 Ко Ко G 5 К2 Ко	18 14 28.950 18 17 36.033 18 18 0.145 18 18 13.202 18 18 20.579 18 18 33.948	+3.3029 +3.8409 +2.1023 +2.9948 +5.5279 +3.1038	- I + 3I - I7 - 4 - 5 - 372	- 9 46 42.26 -29 51 9.24 +36 2 22.52 + 3 21 6.63 -61 31 14.49 - 2 54 51.02	+1.204 +1.511 +1.617 +1.604 +1.611 +0.927	- 64 - 29 + 42 + 10 + 4 -697
689 690 695 691 1478	ε Sagittarii 109 Herculis χ Draconis α Telescopii [+7° 3682 Ophi]	1.95 3.92 3.69 3.76 5.69	A o K o F 8 B 3 G o	18 20 39.252 18 21 26.274 18 22 0.733 18 23 2.603 18 23 5.716	+3.9825 +2.5564 -1.0828 +4.4481 +2.8858	- 23 + 137 +1170 - 16 - 6	-34 24 42.00 +21 44 39.58 +72 42 37.54 -45 59 58.81 + 8 0 2.70	+1.681 +1.632 +1.566 +1.973 +2.012	-126 -241 -356 - 42 - 6
1479 692 696 1480 1481	[+29° 3259 Here] [λ Sagittarii] [γ Scuti] [60 Serpentis] [+16° 3529 Here]	2.94 4.73 5.44	A 2 K o A 3 K o A o	18 23 55.973 18 24 41.944 18 26 10.542 18 26 55.404 18 28 42.881	+2.3125 +3.7022 +3.4190 +3.1218 +2.6675	+ 2 - 33 o + 18 - 32	+29 47 49.94 -25 27 10.09 -14 36 4.86 - 2 1 16.28 +16 53 25.39	+2.069 +1.975 +2.283 +2.318 +2.480	$ \begin{array}{c c} -22 \\ -183 \\ -3 \\ -33 \\ -27 \end{array} $
697 1483 700 1482 1484	[θ Coron. austr.] [Grb 2603 Lyra] [Grb 2655 Draco] [α Scuti] [+9° 3783 Ophi]	6.66	G 5 A 0 K 0 K 0 F 2	18 29 43.084 18 32 17.732 18 32 19.154 18 32 19.310 18 33 56.037	+4.2835 +1.6947 -2.8991 +3.2644 +2.8610	+ 25 - 1 - 12 - 14 - 10	-42 21 9.97 +46 10 35.58 +77 30 26.00 - 8 16 58.09 + 9 4 45.40	+2.574 +2.830 +2.817 +2.507 +2.832	$ \begin{array}{rrr}  & -21 \\  & +14 \\  & +2 \\  & -312 \\  & -126 \end{array} $
1485 699 701 698 1486	[83 G. Sagittarii] α Lyrae [Grb 2640 Draco] ζ Pavonis [δ Scuti]	5.80 0.14 6.00 4.10 4.74	A 5 A 0 A 3 K 0 F 0	18 34 43.983 18 35 8.566 18 36 3.255 18 36 51.289 18 39 22.250	+3.5918 +2.0310 +0.1869 +7.0112 +3.2845	- 2 + 170 + 16 + 15 + 3	-21 26 36.17 +38 43 59.54 +65 26 28.02 -71 28 37.50 - 9 6 17.62	+2.958 +3.346 +3.222 +3.054 +3.429	- 70 +283 + 82 -160
702 1487 703 1488 1489	[ε Scuti] [φ Sagittarii] 110 Herculis [+26°3349 Lyra] [β Scuti]	5.09 3.30 4.26 4.92 4.47	G 5 B 8 F 5 K o G o	18 40 38.015 18 42 20.708 18 43 22.754 18 43 56.247 18 44 21.680	+3.2670 +3.7477 +2.5815 +2.4174 +3.1827	+ 13 + 39 - 12 + 12 - 8	- 8 19 45.31 -27 2 49.59 +20 29 39.33 +26 36 15.16 - 4 48 22.33	+3.544 +3.686 +3.438 +3.846 +3.841	+ 6 + 1 -335 + 25 - 17
1491 1490 1492 704 1493	[111 Herculis] [η¹ Coron. austr.] [Grb 2671 Draco] λ Pavonis [30 Sagittarii]		A 3 A 2 B 5 B 2 F 0	18 44 40.746 18 45 1.042 18 45 31.974 18 47 18.696 18 47 39.286		+ 48 + 21 + 9 - 11 - 21	+18 7 15.98 -43 44 23.06 +52 55 44.46 -62 15 3.73 -22 13 28.64	+3.999 +3.902 +3.954 +4.095 +4.109	-+114 - 13 - 3 - 17 - 31

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947-5	Jährl, Eigen- bew. in o <sup>s</sup> ooor	Dekl. 1947.0	Jährl. Verände- rung 1947.5	Jährl. Eigen- bew. in o"cor
1494 705 707 706 1495	[50 Draconis] β Lyrae ο Draconis σ Sagittarii [114 G. Sagittar.]	5·37 3·4-4·3 4·85 2·14 5·58	A o B 8 p + B 2 p K o B 3 F 5	18 48 5.527 18 48 7.292 18 50 25.137 18 51 58.761 18 52 27.795	-1.9397 +2.2146 +0.8848 +3.7194 +3.4549	- 53 - 2 + 98 + 10 - 24	+75 22 21.19 +33 18 0.02 +59 19 23.08 -26 21 51.81 -16 26 34.34	+4.251 +4.177 +4.399 +4.454 +4.364	$   \begin{array}{r}     + 78 \\     - 2 \\     + 25 \\     - 55 \\     - 187   \end{array} $
709 711 708 710 714	& Serpentis pr R Lyrae λ Telescopii [ξ² Sagittarii] [υ Draconis]	4.50 4.0–4.5 5.03 3.61 4.91	A 5 M 3 B 9 K o	18 53 35.028 18 53 43.257 18 54 13.607 18 54 34.078 18 55 3.136	+2.9822 +1.8254 +4.7993 +3.5783 -0.7356	+ 29 + 17 + 19 + 20 + 95	+ 4 7 59.48 +43 52 31.23 -53 0 36.50 -21 10 41.23 +71 13 36.49	+4.682 +4.739 +4.709 +4.716 +4.814	+ 36 + 82 + 8 - 14 + 47
713 712 716 717 1496	γ Lyrae [ε Aquilae] ζ Aquilae λ Aquilae [τ Sagittarii]	3.30 4.21 3.02 3.55 3.42	Aop Ko Ao Bg Ko	18 56 57.562 18 57 12.943 19 2 58.372 19 3 26.129 19 3 37.914	+2.2438 +2.7225 +2.7570 +3.1831 +3.7451	- 7 - 39 - 8 - 17 - 42	+32 36 56.44 +14 59 41.67 +13 46 59.81 - 4 57 48.93 -27 44 58.98	+4.932 +4.880 +5.346 +5.392 +5.246	+ I - 74 - 94 - 87 -250
1497 1498 719 718 720	[21 G. Aquilae] [Pi18h318 Lyra] [ι Lyrae] α Coron. austr. π Sagittarii	6.72 5.46 5.13 4.12 3.02	B 8 A 5 B 5 A 2 F 2	19 3 50.489 19 4 31.448 19 5 24.518 19 5 52.106 19 6 36.743	+3.1063 +2.3805 +2.1403 +4.0811 +3.5673	+ 10 + 55 - 8 + 73 - 1	- 1 25 43.79 +28 32 38.65 +36 0 57.71 -37 59 20.28 -21 6 34.81	+5.504 +5.657 +5.645 +5.585 +5.709	- 9 + 87 0 - 99 - 37
1499 1500 723 724 722	[42 G. Octantis] [20 Aquilae] 8 Draconis 9 Lyrae [43 Sagittarii]	6.78 5.37 3.24 4.46 5.03	A 2 B 3 K o K o	19 9 12.456 19 9 48.183 19 12 32.795 19 14 31.611 19 14 32.060	+8.1481 +3.2536 +0.0131 +2.0819 +3.5094	- 2 + 6 +160 - 8 - 9	-75 53 31.08 -8 1 47.03 +67 34 6.02 +38 2 17.74 -19 2 56.42	+5.955 +6.006 +6.332 +6.407 +6.391	- 12 - 7 + 93 + 2 - 16
725 726 1501 729 727	ω Aquilae κ Cygni [162 G. Sagittar. τ Draconis [ω Sagittarii]	5.14 3.98 5.61 4.63 4.58	A 5 Ko B 5 Ko B 8 p +F21	19 15 19.648 19 15 52.636 19 16 9.359 19 16 34.937 19 18 41.516	+3.9751 -1.1564	$     \begin{array}{r r}         -4 \\         +61 \\         +3 \\         -331 \\         -2     \end{array} $	+11 29 54.54 +53 16 11.91 -35 31 10.50 +73 15 27.85 -16 3 22.12	+6.490 +6.639 +6.538 +6.684 +6.744	+ 18 +123 - 2 +112 - 6
1502 728 1503 730 1504	[β¹ Sagittarii] α Sagittarii [3r Aquilae] δ Aquilae [59 G. Telescopii	4.31 4.11 5.23 3.44 5.58	B 8 B 8 G 5 F 0 K 2	19 18 49.840 19 20 13.016 19 22 26.509 19 22 49.519 19 23 33.106	+4.1560 +2.8602 +3.0242	+ 1 + 26 +489 +167 - 2	-44 33 37.97 -40 43 3.20 +11 49 46.33 + 3 0 27.51 -54 25 59.38	+6.743 +6.758 +7.697 +7.173 +7.164	- 19 -118 +639 + 84 + 15
731 1505 1506 1507 734	[186 G. Sagittar. [Br 2462 Vulp] [Grb 2844 Cygn] [Pi19 <sup>h</sup> 156 Draco Grb 2900 Draco	6.04 6.72 6.46	B 9 K 5 G 5 B 8 A 2	19 23 35.624 19 24 9.460 19 24 19.499 19 24 49.188 19 24 55.829	+2.6238 +1.8295 +1.0838	+ 15 - 8 - 46 - 20 + 40	-29 50 59.21 +19 47 5.33 +44 49 29.50 +57 55 11.78 +79 29 54.20		$ \begin{vmatrix} -45 \\ -46 \\ -76 \\ +9 \\ -31 \end{vmatrix} $

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o.ooo1	Dekl. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o!'oor
1508 1509	[α Vulpeculae] [36 Aquilae]	m 4.63 5.22	M o	19 26 29.912 19 27 53.485	+2.4960 +3.1369	- 97 + 9	+24 33 23.03 - 2 54 2.84	+ 7.285 + 7.496	- 103 - 6
733 73 <sup>2</sup> 1510	ι Cygni β Cygni <i>pr</i> [8 Cygni]	3.94 3.24 4.85	A 2 K o + A o B 3	19 28 22.149 19 28 34.953 19 29 48.030	+1.5121 +2.4191 +2.2290	+ 19 - 3 - 6	+51 36 58.00 +27 50 49.67 +34 20 21.06	+ 7.669 + 7.553 + 7.655	+ 129 - 4 0
735 1511 736 737 738	[ι Telescopii] [μ Aquilae] 52 Sagittarii [κ Aquilae] ϑ Cygni	5.02 4.65 4.66 5.04 4.64	Ko Ko B 9 B 0 F 5	19 31 17.346 19 31 29.953 19 33 29.008 19 34 2.391 19 35 1.134	+4.4496 +2.9304 +3.6502 +3.2268 +1.6077	- 16 + 141 + 51 0 - 30	-48 12 55.69 + 7 15 54.05 -25 0 8.22 - 7 8 48.77 +50 5 51.00	+ 7.742 + 7.638 + 7.933 + 7.993 + 8.328	- 35 - 155 - 20 - 4 .+ 254
1512 1513 1514 1515 740	[54 Sagittarii] [β Sagittae] [55 Sagittarii] [10 Vulpeculae] 15 Cygni	5.45 4.45 5.10 5.45 5.02	Ko Ko Fo G 5 Ko	19 37 41.245 19 38 40.038 19 39 29.265 19 41 30.607 19 42 21.808	+3.4362 +2.6941 +3.4307 +2.4941 +2.1632	+ 46 + 3 + 42 + 4 + 56	-16 24 58.77 +17 21 6.84 -16 14 59.34 +25 38 38.01 +37 13 30.88	+ 8.244 + 8.332 + 8.421 + 8.612 + 8.693	- 45 - 34 - 11 + 20 + 34
1516 1517 739 741 743	[228 G. Sagittar.] [56 Sagittarii] [ν Telescopii] γ Aquilae δ Sagittae	5.56 5.06 5.52 2.80 3.78	B 8 K o A 5 K 2 M o + A o	19 42 38.468 19 43 16.293 19 43 42.038 19 43 44.348 19 45 1.397	+3.8270 +3.4988 +4.8981 +2.8517 +2.6747	+ 2 - 95 + 102 + 8 + 2	-32 2 17.39 -19 53 24.53 -56 29 31.43 +10 28 58.14 +18 24 8.10	+ 8.662 + 8.645 + 8.636 + 8.771 + 8.880	- 19 - 87 - 129 + 3 + 12
744 745 746 1518 1519	[51 Aquilae] α Aquilae [η Aquilae] [75 G. Pavonis] [90 G. Aquilae]	5.55 0.89 3.7–4.4 6.32 5.64	Fo A5 Gop A3 Fop +A	19 47 51.872 19 48 11.804 19 49 46.356 19 50 3.697 19 50 32.179	+3.3006 +2.9265 +3.0556 +5.2397 +3.1419	- 19 + 360 + 3 + 13 + 14	-10 53 58.22 + 8 43 37.23 + 0 52 5.62 -61 18 35.90 - 3 15 11.35	+ 9.125 + 9.504 + 9.235 + 9.272 + 9.314	+ 35 + 387 - 4 + 9 + 16
1520 749 1521 748 1522	[ι Sagittarii] β Aquilae [η Cygni] ε Pavonis [6r Sagittarii]	4.21 3.90 4.03 4.10 5.05	K o K o K o A o	19 51 36.542 19 52 42.537 19 54 18.977 19 54 29.982 19 54 56.717	+4.1374 +2.9463 +2.2504 +6.9405 +3.4017	+ 7 + 26 - 30 + 190 + 7	-42 0 33.81 + 6 16 22.93 +34 56 29.55 -73 3 12.24 -15 38 0.91	+ 9.438 + 8.988 + 9.562 + 9.475 + 9.543	+ 56 - 478 - 27 - 130 - 96
751 752 1523 753 1524	<ul> <li>θ¹ Sagittarii</li> <li>γ Sagittae</li> <li>[15 Vulpeculae]</li> <li>[62 Sagittarii]</li> <li>[τ Aquilae]</li> </ul>	4·39 3·71 4·74 4.60 5.65	B 3 K 5 A 5 M 3 K o	19 56 17.384 19 56 23.922 19 58 54.983 19 59 24.104 20 1 32.943	+3.9036 +2.6675 +2.4705 +3.6883 +2.9296	0 + 42 + 40 + 27 + 5	-35 25 16.65 +19 20 49.25 +27 36 21.63 -27 51 31.62 + 7 7 37.49	+ 9.717 + 9.777 + 9.951 + 9.998 +10.156	- 25 + 28 + 10 + 20 + 16
755 754 1525 756 759	[ξ Telescopii] δ Pavonis [28 Cygni] ϑ Aquilae ϫ Cephei	4.86 3.64 4.82 3.37 4.43	M o G 5 B 2 p A o B 9	20 3 20.050 20 3 32.746 20 7 27.405 20 8 34.205 20 10 42.604	+4.5960 +5.8847 +2.2277 +3.0947 -2.0209	$ \begin{array}{rrrr}  - & 15 \\  + & 1974 \\  - & 2 \\  + & 22 \\  + & 22 \end{array} $	-53 2 3.98 -66 19 10.78 +36 40 57.28 - 0 58 48.18 +77 33 9.97	+10.288 + 9.152 +10.597 +10.672 +10.848	+ 12 -1140 + 15 + 6 + 28

Nr. Name g	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947.5	Jährl. Eigen- bew. in osooo	Dekl. 1947.0	Jährl. Verände- rung 1947•5	Jährl. Eigen- bew. in o."cox
1526 [p Aquilae] 4.96 757 31 o¹ Cygni 3.95	A o K o +B8	h m s 20 II 49.409 20 II 57.673	+2.7757 +1.8886	+ 36 - 3	+15° 2′ 5.29 +46 34 47.17	+10.960 +10.920	+ 55 + 6
758   33 Cygni   4.32   760   24 Vulpeculae   5.45   1527   [α¹ Capricorni]   4.55	A3 Ko Gop	20 12 9.959 20 14 30.919 20 14 42.663	+1.3942 +2.5669 +3.3243	+ 72 + 9 + 11	+56 24 17.86 +24 30 24.24 -12 40 24.36	+11.012 +11.087 +11.120	+ 83 - 14 + 3
1529 [4 Capricorni] 5.96 761 α <sup>2</sup> Capricorni 3.77	Ko G 5	20 14 54.686 20 15 6.892	+3.5239	+ 23 + 41	-21 58 30.98 -12 42 37.99	+11.102 +11.151	- 29 + 6
1528 [83 G. Telescopii] 6.28 1530 [290 G. Sagittarii] 6.51 762 [β Capricorni] 3.25	M 0 K 2 G 0 + A 0	20 15 8.314 20 17 26.750 20 18 2.085	+4.3017 +3.8713 +3.3698	+ 6 + 14 + 26	-47 52 36.47 -35 50 32.26 -14 57 0.73	+11.153 +11.343 +11.360	+ 5 + 28 + 3
763 [κ¹ Sagittarii] 5.64 765 γ Cygni 2.32 1531 [132 G. Aquilae] 5.41	Ao F8p Ko	20 18 51.940 20 20 19.476 20 20 33.079	+4.0728 +2.1529 +2.9718	+ 32 o - 25	-42 13 5.74 +40 5 9.95 + 5 10 20.46	+11.329 +11.522 +11.502	- 88 + r - 35
764 a Pavonis 2.12 1532 [296 G. Sagittarii] 5.97	В 3 Ко	20 21 28.018 20 22 12.305	+4.7459 +3.6724	+ 11 + 8	-56 54 24.44 -28 50 11.58	+11.521 +11.675	- 82 + 19
1533 [69 Aquilae] 5.11 1534 [41 Cygni] 4.09 1535 42 Cygni 5.94	Ko F5p Ao	20 26 52.802 20 27 13.699 20 27 18.997	+3.1349 +2.4510 +2.2883	+ 44 + 2 + I	- 3 3 46.94 +30 11 26.12 +36 16 36.70	+11.971 +12.007 +12.017	-15 $-3$ $+2$
767   9 Cephei   4.28 1536   [29 G. Capricorni]   5.82 1538   [Grb 3241 Draco]   6.42	A 5 G 5	20 28 41.669 20 29 29.750 20 30 15.201	+1.0061 $+3.2813$ $-0.2578$	+ 60 +202 - 14	+62 48 56.02 -10 2 8.13 +72 21 8.41	+12.100 +12.271 +12.202	- 11 +102 - 16
768 © Delphini 3.98 1537 [9 G. Delphini] 6.68 770 73 Draconis 5.18	B 5 K o A 2 p	20 30 40.795 20 31 21.603	+2.8657 +2.9867 -0.7916	+ 4 + 6 + 10	+11 7 19.16 + 4 42 59.12 +74 46 24.09	+12.233 +12.291 +12.343	- 17 - 6 - 11
769 a Indi 3.21 1539 29 Vulpeculae 4.78	Ko Ao	20 32 13.747 20 33 50.841 20 36 9.191	+4.2189 +2.6790	+ 50 + 44	-47 28 40.39 +21 0 50.71	+12.541 +12.633	+ 72 + 7
772 [x Delphini] 5.23 1540 [13G.Microscopii] 5.54 773 v Capricorni 5.33	G 5 K 2 M 0	20 36 33.246 20 37 0.626 20 37 2.064	+2.9133 +3.7636 +3.4143	+210 + 26 - 15	+ 9 53 53.88 -33 37 14.34 -18 19 35.84	+12.673 +12.734 +12.668	+ 21 + 50 - 18
774   α Delphini   3.86 777   α Cygni   1.33 776   [η Indi]   4.70	B8 A2p Fo	20 37 10.507 20 39 37.410 20 40 9.464	+2.7862 +2.0450 +4.4048	+ 41 0 +172	+15 43 26.26 +45 5 24.48 -52 6 43.08	+12.696 +12.864 +12.842	+ I + 5 - 54
775 β Pavohis 3.60 778 [δ Delphini] 4.53	A 5 A 5 F 8	20 40 12.450 20 40 59.005 20 42 57.629	+5.4069 +2.8005 +3.5512	- 64 - 16 - 40	-66 23 44.09 +14 53 0.00 -25 27 45.92	+12.917 +12.911 +12.928	+ 18 - 40 -155
779 [\$\psi\$ Capricorni] 4.26  782 [6 H. Cephei] 4.63  780 \$\pi\$ Cygni 2.64	G o K o	20 44 2.164 20 44 3.890	+1.4886 +2.4273	- 87 +283	+57 23 20.28 +33 46 14.80	+12.919 +13.484	-234 +330
783 η Cephei 3.59 781 ε Aquarii 3.83	G5 Ko Ao	20 44 11.878 20 44 12.840 20 44 48.470	+2.7828 +1.2199 +3.2469	- 28 +129 + 20	+15 55 55.92 +61 37 56.97 - 9 41 27.73	+12.971 +13.986 +13.173 C 47	-193 +822 - 31

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o <sup>\$</sup> 0001	Dekl. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o!oo1
1544 1542 1543 1545	[Grb 3285 Cygn] [i Microscopii] [3 Aquarii] [-1° 4057 Aqar]	m 6.43 5.14 4.60 6.53	Ko Fo Mo	20 44 48.919 20 44 53.965 20 44 56.474 20 46 33.705	+1.7390 +4.0664 +3.1648 +3.0840	- 97 + 167 - 3 - 24	+52 48 5.90 -44 10 59.42 - 5 13 22.79 - 0 45 37.07	+13.098 +13.109 +13.177 +13.307	- 106 - 102 - 37 - 12
1546 1547 785 786 1548 788	[ω Capricorni] [μ Aquarii] β Indi 32 Vulpeculae [64 G. Capricor.] ν Cygni	4.24 4.80 3.72 5.24 5.95 4.04	M o A 3 K o K 5 A 3 A o	20 48 39.708 20 49 47.764 20 50 40.988 20 52 17.958 20 54 42.701 20 55 11.707	+3.5797 +3.2352 +4.6882 +2.5568 +3.3577 +2.2364	- 7 + 26 + 23 - 6 + 31 + 5	-27 7 7.77 - 9 11 0.28 -58 39 20.73 +27 51 18.27 -16 14 12.57 +40 57 44.38	+13.454 +13.502 +13.568 +13.691 +13.844 +13.864	- 2 - 28 - 19 + 2 0 - 9
1549 ·789 1551 1550 787	[33 Vulpeculae] [11 Aquarii] [59 Cygni] [7 Microscopii] [\alpha Octantis]	5.57 6.26 4.88 4.71 5.24	K5 Go Bop G5 F2	20 55 54.078 20 57 46.390 20 58 1.273 20 58 2.690 20 58 22.283	+2.6818 +3.1581 +2.0401 +3.6793 +7.2724	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	+22 7 12.20 - 4 56 10.02 +47 18 47.91 -32 27 58.59 -77 13 42.26	+13.924 +13.904 +14.056 +14.059 +13.711	+ 6 - 132 + 5 + 6 - 362
79° 1552 792 1553 791	ζ Microscopii [9 Capricorni] [ξ Cygni] [-0°4161 Aqar] [A Capricorni]	5·35 4·19 3·92 7·10 4.60	F o A o K 5 K 2	20 59 35.111 21 2 58.199 21 3 0.049 21 3 50.192 21 4 1.859	+3.8327 +3.3719 +2.1821 +3.0790 +3.5082	- 25 + 57 + 4 + 6 - 21	-38 50 23.18 -17 26 40.65 +43 42 56.25 - 0 19 5.95 -25 13 8.37	+14.039 +14.302 +14.362 +14.424 +14.378	- 109 - 54 + 5 + 15 - 43
793 795 794 1555 1554	61 Cygni pr Br 2777 Ceph ν Aquarii [γ Equulei] [ο Pavonis]	5.57 5.90 4.52 4.76 5.08	K 5 B 9 K 0 F 0 p M 0	21 4 31.058 21 6 35.603 21 6 42.500 21 7 45.825 21 8 24.416	+2.6874 -1.2046 +3.2672 +2.9175 +5.6274	+3504 + 60 + 61 + 38 + 85	+38 29 16.13 +77 54 43.06 -11 35 14.85 + 9 55 1.32 -70 20 40.16	+17.711 +14.609 +14.570 +14.494 +14.654	+3261 + 36 - 12 - 151 - 32
1556 797 796 800	[58 G.Microscopii] ζ Cygni [23 G. Indi] α Equulei [24 G. Indi]	1000000	K 5 K 0 A 5 F 8 + A 3	21 10 8.996 21 10 40.697 21 11 59.380 21 13 10.440 21 14 16.513	+3.5568 +2.5531 +4.2823 +2.9986 +4.0856	+ 73 - 4 + 18 + 36 - 24	-27 50 12.37 +30 0 31.17 -53 29 1.66 + 5 1 39.73 -48 56 23.22	+14.672 +14.765 +14.885 +14.882 +14.951	- 116
801 1558 1559 803 802	[ε Microscopii] [σ Cygni] [υ Cygni] α Cephei [9¹ Microscopii]	4.79 4.28 4.42 2.60 4.92	A o p B 3 p A 5 A 2 p	21 14 43.707 21 15 19.889 21 15 44.157 21 17 18.877 21 17 22.617	+3.6368 +2.3562 +2.4667 +1.4314 +3.8363	+ 39 - 4 + 6 + 212 + 56	-32 23 42.69 +39 10 18.15 +34 40 24.48 +62 21 37.97 -41 2 5.41	+15.034 +15.087 +15.110 +15.254 +15.206	- 2I - 2 - 2 + 52
1560 1561 804 1562 805	[Grb 3434 Cygn] [1 Capricorni] 1 Pegasi [18 Aquarii] 7 Pavonis	6.81 4.30 4.27 5.54 4.30	K <sub>2</sub> K <sub>0</sub> K <sub>0</sub> A <sub>5</sub> F <sub>8</sub>	21 17 58.383 21 19 17.864 21 19 38.023 21 21 17.812 21 22 5.312	+1.9291 +3.3399 +2.7744 +3.2778	+ 6 + 22 + 72 + 60 + 153	+52 49 58.96 -17 3 41.04 +n9 34 36.61 -13 6 23.80 -65 36 27.49	+15.240 +15.322 +15.402 +15.438 +16.271	+ 6 + 68 + 11

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o.ooo1	Dekl. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in
1563 806 1564 807 1565	[y Indi] \$\zeta Capricorni \( \)  [2 G. Pegasi]  [71 Cygni]  [2 Pegasi]	m 6.24 3.86 6.66 5.34 4.76	Fo G5P Mo Ko K5	h m s 21 22 29.411 21 23 38.661 21 25 48.029 21 27 29.443 21 27 32.695	+3.4247 +2.9571 +2.2139 +2.7175	+ 8 + 1 + 4 + 42 + 13	-54 53 26.45 -22 38 31.18 + 7 57 50.61 +46 18 22.32 +23 24 20.28	+15.540 +15.585 +15.644 +15.876 +15.777	+ 46 + 27 - 32 + 108 + 6
809 808 1566 1567 1568	β Cephei β Aquarii [6 Piscis austr.] [3 G. Gruis] [ρ Cygni]	3·33 3.07 5·99 5·73 4·22	B I G o A 2 K o K o	21 27 59.025 21 28 46.174 21 29 2.568 21 29 57.937 21 31 59.073	+0.7737 +3.1577 +3.6290 +3.8872 +2.2565	+ 21 + 12 + 6 - 18 - 25	+70 19 40.47 - 5 48 19.18 -34 10 45.40 -45 5 2.83 +45 21 24.62	+15.807 +15.832 +15.849 +15.897 +15.917	+ 13 - 4 - 3 - 4 - 90
811 1569 1570 810 812	74 Cygni [E Aquarii] [5 Pegasi]  v Octantis [Y Capricorni]	5.09 4.78 5.29 3.74 3.80	A 5 F o K o F o p	21 34 49.293 21 34 55.872 21 35 16.518 21 35 39.911 21 37 9.400	+2.4047 +3.1930 +2.8074 +6.6774 +3.3232	- 7 + 74 + 70 + 185 + 131	+40 10 29.14 -8 5 34.34 +19 4 45.31 -77 37 38.13 -16 54 9.90	+16.174 +16.140 +16.195 +15.961 +16.253	+ 19 - 22 + 16 - 240 - 22
813 817 815 814 1571	[13 H. Cephei] [11 Cephei] [2 Pegasi [4 Piscis austr.] [+35°4626 Cygn]	5.97 4.85 2.54 4.35 6.60	O e 5 Ko Ko A o Ko	21 37 18.810 21 41 9.093 21 41 34.915 21 41 47.706 21 43 29.505	+1.8613 +0.8782 +2.9462 +3.5732 +2.5439	- 7 + 235 + 18 + 29 + 75	+57 14 55.79 +71 4 2.02 + 9 37 52.13 -33 16 7.13 +35 36 43.64	+16.283 +16.581 +16.503 +16.418 +16.609	+ 105 + 5 - 91 + 17
818 1572 819 1574 1573	[\lambda Capricorni] [\nu Cephei] 8 Capricorni [II Pegasi] [I3 G. Gruis]	5.43 4.46 2.98 5.50 5.75	A o A 2 p A 5 A o G 5	21 43 40.997 21 43 55.079 21 44 7.057 21 44 32.691 21 44 49.470	+3.2287 +1.7307 +3.3106 +3.0420 +3.9012	+ 17 - 7 + 181 + 5 + 159	-11 36 40.60 +60 52 32.71 -16 22 7.45 + 2 26 24.72 -47 32 44.97	+16.597 +16.615 +16.330 +16.649 +16.363	- 4 + 2 - 293 + 5 - 295
821 820 1575 1576 1577	π² Cygni [o Indi] [14 Pegasi] [127 G.Capricor.] [μ Capricorni]	4.26 5.50 5.00 6.85 5.18	B 3 K 2 A 0 F 8 F 0	21 44 49.922 21 46 20.298 21 47 29.832 21 48 23.832 21 50 24.490	+2.2167 +5.0763 +2.6539 +3.4143 +3.2702	+ 2 - 44 + 10 + 253 + 211	+49 3 49.30 -69 52 38.81 +29 55 36.01 -23 31 5.60 -13 48 7.87	+16.660 +16.728 +16.763 +16.745 +16.938	+ 2 - 3 - 23 - 84 + 14
823 822 1578 1579 824	16 Pegasi γ Gruis [Br 2880 Ceph] [Pi21 <sup>h</sup> 339 Pegs] [8 Indi]	5.05 3.16 6.58 6.62 4.56	B 3 B 8 A 0 K 5 F 0	21 50 38.884 21 50 43.537 21 52 10.317 21 53 55.138 21 54 19.519	+2.7299 +3.6320 +0.7007 +2.8049 +4.0831	+ 2 + 85 + 79 - 3 + 63	+25 40 30.09 -37 36 54.10 +73 27 5.28 +20 59 14.01 -55 14 44.22	+16.938 +16.927 +17.036 +17.105 +17.102	+ 3 - 13 + 31 + 19 - 3
1580 826 825 1581 827	[98 G. Aquarii] [20 Pegasi] [ε Indi] [λ Gruis] α Aquarii	6.42 5.66 4.74 4.60 3.19	Ko F 2 K 5 K 2 G 2	21 56 9.146 21 58 30.320 21 59 19.249 22 2 55.639 22 3 3.703	+4.5879	- 4 + 35 +4808 - 18 + 10	- 4 37 24.24 +12 51 55.23 -57 0 17.73 -39 47 59.76 - 0 34 41.07	+16.934 +17.247 +14.778 +17.371 +17.487 C* 47	← 46       ← 2551       ← 114       ← 4

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947.5	Jährl, Eigen- bew. in o!ooor	Dekl. 1947.0	Jährl. Verände- rung 1947.5	Jährl. Eigen- bew. in o."oo1
830 828 831 829 832	20 Cephei ι Aquarii [ι Pegasi] α Gruis [μ Piscis austr.]	5·39 4·35 3·96 2.16 4.62	K 5 B 8 F 5 B 5 A 2	h m s 22 3 23.688 22 3 34.584 22 4 32.448 22 4 54.112 22 5 17.790	**1.8236 +3.2393 +2.7928 +3.7803 +3.4998	+ 21 + 26 +215 +123 + 64	+62 31 36.01 -14 7 39.42 +25 5 8.00 -47 13 6.72 -33 14 53.08	+17.568 +17.460 +17.582 +17.422 +17.549	+ 64 $- 53$ $+ 28$ $- 147$ $- 37$
833	[27 Pegasi] 9 Pegasi π Pegasi 24 Cephei ζ Cephei	5.65	K o	22 6 52.520	+2.6586	- 49	+32 54 45.99	+17.588	- 63
834		3.70	A 2	22 7 31.516	+3.0259	+181	+ 5 56 11.26	+17.715	+ 37
835		4.38	F 5	22 7 37.805	+2.6647	- 13	+32 55 3.02	+17.666	- 17
837		4.99	G 5	22 8 47.538	+1.1521	+ 63	+72 4 48.00	+17.743	+ 14
836		3.62	K o	22 9 0.687	+2.0814	+ 14	+57 56 22.27	+17.747	+ 8
838	[\lambda Piscis austr.] [r H. Lacertae] [125 G. Aquarii] \(\theta\) Aquarii [\varepsilon Octantis]	5.40	B 9	22 11 18.758	+3.4000	+ 20	-28 I 49.73	+17.832	0
1583		4.64	K 2	22 11 35.996	+2.5757	+ 33	+39 27 4.74	+17.854	+ 11
1582		6.60	G 5	22 11 46.125	+3.2475	- 8	-16 4 37.04	+17.498	-352
840		4.32	K 0	22 14 2.269	+3.1652	+ 78	- 8 2 52.55	+17.921	- 19
839		5.11	M 3	22 14 12.750	+6.7367	+303	-80 42 17.81	+17.913	- 34
841	α Tucanae	2.91	K2	22 14 53.362	+4.1112	$   \begin{array}{r}     -83 \\     -5 \\     +2 \\     +85 \\     -19   \end{array} $	-60 31 28.60	+17.938	- 34
1584:	[47 Aquarii]	5.40	K0	22 18 40.703	+3.3020		-21 51 52.61	+18.033	- 84
843:	[31 Pegasi]	4.93	B3p	22 18 54.445	+2.9528		+11 56 15.48	+18.142	+ 17
842:	γ Aquarii	3.97	A0	22 18 55.127	+3.0982		- 1 39 18.22	+18.138	+ 13
844	β Lacertae	4.58	K0	22 21 28.240	+2.3595		+51 57 46.76	+18.034	-185
1585	[π Aquarii]	4.64	Bip	22 22 34.188	+3.0635	+ 10	+ 1 6 28.01	+18.264	+ 4
1586	[Pi 22 <sup>h</sup> 97 Pegs]	6.40	Ko	22 23 7.073	+2.8946	+ 13	+18 10 27.13	+18.318	+ 39
1587	[72 G. Indi]	5.70	A3	22 24 45.179	+4.4194	+277	-67 45 32.44	+18.273	- 65
845	[ν Gruis]	5.48	Ko	22 25 33.195	+3.5158	+ 31	-39 24 2.19	+18.209	-156
846	[δ <sup>1</sup> Gruis]	4.02	G5	22 26 6.572	+3.5853	+ 24	-43 46 1.33	+18.387	+ 2
1588 1589 847 1590 1591	[36 Pegasi] [Pi22 <sup>h</sup> 120 Pegs] [8 Cephei] [38 Pegasi] [6 Aquarii]	5.82 5.96 3.7-4.4 5.51 4.89	K 2 K 2 G o v A o A o	22 26 29.201 22 26 41.015 22 27 11.837 22 27 36.131 22 27 50.600	+2.9942 +2.8111 +2.2273 +2.7444 +3.1743	+ 36 + 15 + 11 + 25	+ 8 51 28.11 +26 29 29.84 +58 8 36.34 +32 18 2.87 -10 56 59.41	+18.383 +18.400 +18.425 +18.425 +18.418	$ \begin{array}{rrr}  - & 15 \\  - & 5 \\  + & 3 \\  - & 12 \\  - & 27 \end{array} $
1592	[β Piscis austr.] α Lacertae [ρ Cephei] [Grb 3834 Ceph] [υ Aquarii]	4.40	A o	22 28 29.833	+3.4108	+ 53	-32 37 6.12	+18.461	- 6
848		3.85	A o	22 29 6.145	+2.4719	+139	+50 0 34.42	+18.510	+ 22
1593		5.50	A 2	22 29 25.775	+0.5312	- 13	+78 33 8.03	+18.484	- 14
1594		5.74	A o	22 31 20.780	+1.0514	- 69	+75 57-11.43	+18.560	- 2
849		5.29	F 5	22 31 47.830	+3.2811	+155	-20 58 49.33	+18.434	- 143
850	η Aquarii	4.13	B8	22 32 37.962	+3.0826	+ 60	- 0 23 28.42	+18.555	$ \begin{array}{r} -50 \\ +31 \\ -112 \\ -20 \\ -3 \\ +6 \end{array} $
851	31 Cephei	5.22	F0	22 34 27.522	+1.4812	+391	+73 22 4.32	+18.694	
1595	{κ Aquarii]	5.33	K0	22 35 0.702	+3.1066	- 48	- 4 30 7.00	+18.569	
853	[30 Cephei]	5.21	A2	22 36 45.847	+2.1279	- 12	+63 18 30.95	+18.716	
852	10 Lacertae	4.91	Oe5	22 36 52.704	+2.6924	- 1	+38 46 26.10	+18.736	
854	[ε Piscis austr.]	4.22	B8	22 37 43.679	+3.3177	+ 21	-27 19 14.06	+18.771	

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947.5	Jährl. Eigen- bew. in o <sup>°</sup> .ccor	Dekl. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o,"cor
855 856 857 858 1596	ζ Pegasi β Gruis η Pegasi [13 Lacertae] [45 Pegasi]	3.61 2.24 3.10 5.24 6.45	B 8 M 3 G o K o	22 38 49.024 22 39 30.683 22 40 30.830 22 41 43.344 22 42 53.288	+2.9922 +3.5821 +2.8126 +2.6758 +2.9182	+ 53 + 133 + 9 - 10 - 24	+10 33 15.04 -47 9 44.47 +29 56 36.89 +41 32 26.58 +19 5 12.03	+18.792 +18.817 +18.828 +18.896 +18.982	$ \begin{array}{c c} - & 7 \\ - & 3 \\ - & 22 \\ + & 11 \\ + & 63 \end{array} $
859	λ Pegasi	4.14	K o	22 43 58.497	+2.8899	+ 39	+23 17 10.56	+18.945	- 6
1597	[68 Aquarii]	5.43	G 5	22 44 42.460	+3.2219	- 73	-19 53 25.07	+18.774	-198
1598	[-2° 5826 Aqar]	7.58	K 2	22 44 46.017	+3.0891	+ 3	- 2 4 6.33	+18.976	+ 3
860	ε Gruis	3.69	A 2	22 45 21.808	+3.6234	+ 111	-51 35 45.77	+18.931	- 59
861	[τ Aquarii]	4.21	K 5	22 46 47.223	+3.1758	- 10	-13 52 22.10	+18.998	- 31
862	[μ Pegasi]	3.67	Ko	22 47 26.507	+2.8959	+ 107	+24 19 16.73	+19.011	- 36
863	ι Cephei	3.68	Ko	22 47 47.184	+2.1354	- 113	+65 55 17.04	+18.938	-118
1599	69 G. Gruis	5.39	K2	22 48 1.521	+3.4144	+ 18	-39 26 16.93	+19.057	- 7
864	λ Aquarii	3.84	Mo	22 49 50.992	+3.1293	+ 5	- 7 51 43.64	+19.151	+ 40
865	ρ Indi	6.14	Go	22 51 0.138	+4.1752	- 73	-70 21 26.67	+19.216	+ 74
866 1600 867 868 869	δ Aquarii [+36° 4956 Lacr] α Piscis austr. [ζ Gruis] ο Andromedae	3.51 6.00 1.29 4.18 3.63	A 2 F 2 A 3 G 5 B 5 +A2p	22 51 50.354 22 52 34.453 22 54 43.586 22 57 45.692 22 59 28.600	+3.1833 +2.7905 +3.3149 +3.5420 +2.7607	- 29 + 70 + 258 - 74 + 18	-16 6 11.33 +36 47 38.16 -29 54 12.92 -53 2 19.55 +42 2 27.22	+19.143 +19.197 +19.077 +19.305 +19.350	- 20 + 15 -159 - 4 + 2
1601	[π Piscis austr.] [β Piscium] β Pegasi α Pegasi [55 Pegasi]	5.13	Fo	23 0 34.102	+3.3186	+ 53	-35 2 10.88	+19.462	+ 89
1602		4.58	B5p	23 I 10.707	+3.0529	+ 6	+ 3 32 3.69	+19.384	- 3
870		2.61	Mo	23 I 12.049	+2.9087	+ 141	+27 47 41.94	+19.530	+143
871		2.57	Ao	23 2 7.098	+2.9885	+ 42	+14 55 11.04	+19.371	- 36
1603		4.69	Mo	23 4 19.954	+3.0221	+ 5	+ 9 7 22.21	+19.447	- 8
1604	[5 Andromedae]	5.83	F o	23 5 20.495	+2.7253	+ 152	+49 0 24.58	+19.615	+139
873	88 Aquarii	3.80	K o	23 6 37.384	+3.1983	+ 39	-21 27 37.42	+19.541	+ 40
1605	[1 Gruis]	4.10	K o	23 7 21.957	+3.3953	+ 124	-45 32 2.64	+19.499	- 18
1606	[59 Pegasi]	5.15	A 3	23 9 3.523	+3.0289	- 7	+ 8 25 55.06	+19.549	- 1
875	Br 3077 Cass	5.65	K 2	23 10 43.192	+2.8890	+2524	+56 52 31.80	+19.881	+300
1607	[φ Aquarii] [ψ¹ Aquarii] [25 G. Tucanae] γ Tucanae γ Piscium	4.40	Mo	23 11 34.652	+3.1067	+ 24	- 6 20 6.06	+19.407	-190
1608		4.48	Ko	23 13 6.925	+3.1431	+ 251	- 9 22 36.50	+19.614	-11
876		5.69	Go	23 13 47.432	+3.6076	+ 252	-62 17 25.59	+19.613	-24
877		4.10	F2	23 14 20.943	+3.5011	- 38	-58 31 35.42	+19.741	+94
878		3.85	Ko	23 14 25.000	+3.1100	+ 506	+ 2 59 32.76	+19.672	+24
879 1609 880 1610 1611 1612	γ Sculptoris [ψ <sup>8</sup> Aquarii] τ Pegasi [12 Andromedae] [11 G.Sculptoris] [98 Aquarii]		K o A o A 5 F 5 G 5 K o	23 15 57.987 23 16 12.291 23 18 0.594 23 18 19.387 23 18 26.255 23 20 11.324	+3.2394 +3.1205 +2.9698 +2.8955 +3.1964 +3.1503	The state of the s	-32 49 15.47 - 9 54 2.73 +23 27 0.06 +37 53 33.50 -27 16 38.33 -20 23 24.42	+19.614 +19.682 +19.705 +19.647 +19.703 +19.653	- 60 + 4 - 2 - 66 - 12 - 88

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- bew. in o <sup>5</sup> 0001	Dekl. 1947.0	Jährl. Verände- rung 1947.5	Jährl. Eigen- bew. in o."oor
1613 882 881 883 884	[67 Pegasi] 4 Cassiopeiae [v Pegasi] [o Gruis] × Piscium	5.46 5.20 4.57 5.54 4.94	A o K 5 G o F o A 2 p	h m s 23 22 14.842 23 22 28.320 23 22 43.808 23 23 39.116 23 24 12.856	+2.9367 +2.6647 +2.9947 +3.3558 +3.0753	+ 8 + 7 +137 + 25 + 56	+32° 5′ 36.57 +61 59 30.08 +23 6 43.66 -53 0 54.70 + 0 57 54.90	+19.776 +19.769 +19.821 +19.924 +19.709	+ 4 - 6 + 42 +133 - 90
1614 1615 885 886 1616	[3 Piscium] [+15° 4830 Pegs] 70 Pegasi [\$ Sculptoris] [15 Andromedae]	100	G 5 Å 2 K 0 B 9 A 0	23 25 16.672 23 26 22.072 23 26 28.303 23 30 8.037 23 32 1.572	+3.0433 +3.0184 +3.0343 +3.2166 +2.9356	- 84 + 1 + 42 + 73 - 15	+ 6 5 15.50 +15 43 13.61 +12 28 5.04 -38 6 41.95 +39 56 38.86	+19.774 +19.837 +19.868 +19.894 +19.856	- 39 + 9 + 39 + 21 - 38
888 890 889 891	[i Phoenicis] 248 G. Aquarii A Andromedae [II G. Phoenicis] i Andromedae	4.28	A 2 p K o K o A 2 B 8	23 32 13.810 23 32 48.012 23 34 57.702 23 35 0.182 23 35 31.773	+3.2267 +3.0945 +2.9368 +3.2289 +2.9430	+ 35 - 3 +152 + 64 + 23	-42 54 29.82 - 7 45 28.35 +46 10 15.32 -45 47 8.62 +42 58 28.37	+19.904 +19.927 +19.508 +19.919 +19.931	+ 8 + 25 -416 - 5 + 3
893 892 1619 1618 1620	γ Cephei ι Piscium [κ Andromedae] [μ Sculptoris [λ Piscium]	3.42 4.28 4.33 5.33 4.61	Ko F8 Ao Ko A5	23 37 9.071 23 37 13.342 23 37 47.391 23 37 51.492 23 39 20.449	+2.4604 +3.0858 +2.9556 +3.1474 +3.0613	-214 +250 + 73 - 74 - 88	+77 20 11.57 + 5 20 20.06 +44 2 25.36 -32 21 58.57 + 1 29 18.05	+20.101 +19.512 +19.934 +19.901 +19.818	+157 -432 - 15 - 49 -143
894 1621 1622 1623 895	ω <sup>2</sup> Aquarii [106 Aquarii] [ψ Andromedae] [20 Piscium] 41 H. Cephei	4.62 5.26 5.09 5.60 5.02	A o B 8 K o + A 5 K o A o	23 39 58.472 23 41 27.221 23 43 23.948 23 45 12.998 23 45 21.631	+3.1107 +3.1114 +2.9734 +3.0838 +2.8689	+ 66 + 19 + 6 + 60 + 13	-14 50 17.23 -18 34 16.09 +46 7 33.55 - 3 3 22.56 +67 30 44.29	+19.902 +19.983 +19.989 +20.013 +20.005	$ \begin{array}{r} -64 \\ +6 \\ -1 \\ +12 \\ +3 \end{array} $
896 1624 897 898 1625	δ Sculptoris [Pi23 <sup>h</sup> 194 Aqar] [268 G. Aquarii] φ Pegasi [82 Pegasi]	4.64 7.14 6.08 5.23 5.39	A o K o K o M o A 3	23 46 10.097 23 46 41.528 23 47 30.634 23 49 47.269 23 49 54.753	+3.1248 +3.1041 +3.0956 +3.0525 +3.0605	+ 81 - 3 + 92 - 5 - 16	-28 25 24.32 -21 54 31.88 -10 16 12.44 +18 49 33.36 +10 39 8.83	+19.906 +20.021 +20.091 +19.992 +20.031	-100 + 12 + 79 - 30 + 7
899 1626 1627 1628 1629	ρ Cassiopeiae [27 G. Phoenicis] [Grb 4163 Ceph] [Pi23 <sup>h</sup> 235 Pegs] [ψ Pegasi]	6.57	F8p F8 B9 Mo Mo	23 51 43.417 23 51 52.138 23 52 13.367 23 53 59.205 23 55 3.196	+2.9980 +3.1457 +2.9118 +3.0572 +3.0572	- 7 +320 - 26 - 16 - 27	+57 12 16.49 -40 35 43.95 +74 6 55.12 +22 21 11.57 +24 50 48.74	+20.035 +20.064 +20.030 +20.040 +20.013	+ 5 + 34 - 1 + 4 - 25
900 901 902 903 904 1630	27 Piscium [π Phoenicis] ω Piscium ε Tucanae [Ֆ Octantis] [30 Piscium]	5.07 5.14 4.03 4.71 4.73 4.66	Ko Ko F 5 B 9 Ko M 3	23 55 57.553 23 56 11.429 23 56 35.252 23 57 10.621 23 58 54.112 23 59 14.493	+3.0716 +3.1082 +3.0811 +3.1187 +3.0860 +3.0771	- 33 + 56 +101 + 89 -151 + 34	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	+19.974 +20.109 +19.932 +20.023 +19.883 +20.010	- 66 + 69 -108 - 19 -160 - 33

Von den Sternen, deren Namen eingeklammert sind, folgen keine Ephemeriden.

1947.5	Nr.	Name	Größe .	Spektrum	AR. 1947.0	rung	Jährl. Eigen- bew. in o <sup>s</sup> ooi	Dekl. 1947.0	Jährl. Verände- rung 1947-5	Jährl. Eigen- hew. in o."oo1
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#### Nördliche Polsterne

				Norunci	ie Poisi	erne			
Na Nb Nα	43 II. Cephei α Ursae min. [Br 256 Ceph]	m 4.52 2.12* 6.86	Ko F8v Ko	i i 6.28 i 46 52.47 2 8 24.46	+ 8.162 +38.338 + 9.176	+ 78 +175 + 39	+85° 58′ 26″.28 +89 ° 50.14 +83 18 53.84	+19.327 +17.885 +16.935	- 6 - 5 - 41
Nβ Nc	[Br 402 Ceph] Grb 750 Ceph	5.78 6.70	Ko F8	3 19 23.69 4 18 59.20	+14.209 +18.154	+ 57 + 18	+84 43 45.20 +85 24 37.68	+12.786 + 8.568	-130 + 28
Nγ Nδ Nd Nε Nζ	[+85° 74 Ceph] [Grb 944 Ceph] 51 H. Cephei [Grb 1359 Caml] [+84° 196 Caml]		A 5 K o M o A o F o	5 12 46.12 5 44 37.69 7 16 26.15 8 4 30.70 9 4 38.83	+21.310 +18.874 +28.208 +14.354 +12.519	+ 24 + 12 - 48 - 8 + 18	+85 53 28.46 +85 10 23.46 +87 7 54.48 +84 13 2.11 +84 23 53.87	+ 4.005 + 1.333 - 6.615 -10.392 -14.454	- 81 + 3 - 34   - 22   + 9
Ne Nf Nn No No	I H. Draconis 30 H. Camelop. [+86° 161 Caml] [Grb 1850 Caml] [Grb 2063 Caml]	4.58 5.34 7.17 6.38 6.16	K 2 F 2 A 2 F 5 G 5	9 29 41.80 10 24 47.99 11 8 27.08 12 2 1.37 13 43 45.87	+ 8.557 + 7.311 + 7.212 + 2.858 - 1.677	- 7 - 44 - 41 - 50 + 20	+81 33 48.03 +82 49 46.98 +85 55 42.22 +85 52 50.70 +83 1 7.15	-15.907 -18.316 -19.539 -19.955 -18.072	- 18 + 25 + 1 + 88 - 48
Nu Na Ng Nh Ni	[Grb 2196 UMin] [Grb 2315 UMin]  E Ursae min.  8 Ursae min.  \( \) Ursae min.	0.0	G o A 2 G 5 A o M 3	14 53 45.72 15 48 46.88 16 51 19.33 17 49 16.63 18 25 13.02	- 4.036 - 6.214 - 6.152 -19.449 -77.121	+ 90 + 4 + 6 + 12 -112	+82 43 51.42 +83 6 36.00 +82 7 39.35 +86 36 37.62 +89 2 57.40	-14.786 -10.863 - 5.918 - 0.895 + 2.146	$     \begin{array}{r}       -232 \\       - 1 \\       + 4 \\       + 55 \\       + 2     \end{array} $
N μ N ν N k N ξ N ο N π	[Br 2412 Drac] [Grb 3212 Drac] 76 Draconis [32 H. Cephei] [36 H. Cephei] [V Cephei]	6.15 6.61 5.69 5.38 4.96 6.42	A 2 A 2 A 0 A 0 K 5 A 0	18 31 11.58 20 7 19.52 20 46 32.87 22 17 48.20 22 54 54.54 23 53 55.46	- 7.926 - 8.770 - 4.338 - 4.812 - 0.470 + 2.815	+ 6 - 9 + 14 + 51 + 58 + 26	+83 8 24.47 +84 31 4.81 +82 20 12.37 +85 50 32.67 +84 3 46.05 +82 53 46.21	+ 2.683 +10.525 +13.342 +18.131 +19.273 +20.054	- 31 - 41 + 27 + 49 + 33 + 18

\* var.

Von den Sternen, deren Namen eingeklammert sind, folgen keine Ephemeriden.

Nr.	Name	Größe	Spektrum	AR. 1947.0	Jährl. Verände- rung 1947.5	Jährl. Eigen- bew. in o <sup>s</sup> oor	Dekl. 1947.0	Jährl. Verände- rung 1947.5	Jährl. Eigen- bew. in o."oor
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### Südliche Polsterne

		- X-	- Line		1914 641	2000			
$S\alpha$	[o Octantis]	m 7.22	Αo	h m s Q 12 16.69	+ 0.070	+ 45	-88° 39′ 27.55	+20.017	+ 3
Sa	4 G. Octantis	5.63	Ko	1 40 15.54	<b>— 3.420</b>	+ 22	-85 2 17.22	+18.181	+ 25
Sβ	[Lac 1029 Octn]	7.76	Fo	2 28 33.47	-8.325	+ 1	-85 57 20.50	+15.960	- 2I
SY	[Lac 1848 Octn]	8.35	G 5	2 39 27.31	-27.196	<b>-</b> 48	-88 22 50.72	+15.375	<b>— 21</b>
SS	[12 G. Mensae]	6.76	A 2	4 28 54.30	- 6.993	<b>—</b> 10	-8 <sub>3</sub> I 1.40	+ 7.765	+ 2
Sb	ξ Meņsae	5.85	Ko	5 4 49.67	- 6.844	— <sub>3</sub>	-82 32 40.69	+ 4.794	+ 10
$S\varepsilon$	[31 G. Mensae]	6.24	Αo	5 40 25.57	-11.612	- 8	-84 49 2.99	+ 1.767	+ 49
$S\zeta$	[6 G. Octantis]	6.74	Ko	5 53 50.22	-15.720	<b>— 15</b>	$-85\ 55\ 52.72$	+ 0.554	+ 4
Sη	[7 G. Octantis]	6.41	F 2	7 6 2.42	-20.995	+ 10	<b>-86</b> 57 10.52	- 5.678	+ 3
S9	[A Octantis]	7.75	Ao	7 15 22.58	-51.817	<b>-</b> 9	-88 40 41.88	-6.423	+ 15
Sc	ζ Octantis	5.38	Fο	9 4 47.04	— 8.66o	<b>-</b> 92	-85 27 14.67	-14.424	+ 36
$S\iota$	[10 G. Octantis]	6.74	Ao	10 34 19.34	- 3.607	- 2	-85 48 59.73	-18.653	+ 4
Sx	[	6.26	Ao	10 59 43.75	<b>- 0.458</b>	<b>— 45</b>	-84 18 31.53	-19.359	- 5
Sd	ι Octantis	5.38	Ko	12 49 11.30	+ 6.274	+ 46	<b>-84</b> 50 10.00	-19.557	+ 25
$S\lambda$	[x Octantis]	5.65	A 2	13 31 56.63	+ 9.669	<b>–</b> 68	<b>-85</b> 30 58.70	-18.471	<b>— 23</b>
Se	20 G. Octantis	6.52	A 2	14 59 58.05	+29.163	-178	-87 56 10.16	-14.229	<b>— 69</b>
$S\mu$	[p Octantis]	5.66	A 2	15 30 44.58	+13.808	+ 92	<b>-84</b> 17 38.86	-12.052	+ 91
Sf	26 G. Octantis	6.13	Ao	16 40 43.09	+22.409	+ 10	-86 16 35.39	-6.782	0
Sg	χ Octantis	5.22	Ko	18 24 0.94	+35.438	<b>— 70</b>	-87 39 16.08	+ 1.991	-131
Sv	[44 G. Octantis]	6.32	Ko	19 46 22.80	+11.058	+ 5	-81 29 15.07	+ 8.981	+ 1
Sh	σ Octantis	5.48	Fo	20 11 10.10	+78.432	+132	<b>-89</b> 8 51.55	+10.900	- 3
Sξ	[48 G. Octantis]	7.08	Ao	20 30 17.57	+14.290	+ 36	-84 35 34.51	+12.210	- 20
So	[B Octantis]	6.54	A 5	22 18 25.89	+39.075	+ 62	-89 5 30.73	+18.078	- 41
$S\pi$	[v Octantis]	5.74	Ko	22 22 5.26	+11.446	<b>— 37</b>	-86 14 21.77	+18.307	+ 62
Si	β Octantis	4.34	Fo	22 40 46.16	+ 6.136	- 23	-81 39 37.52	+18.867	+ 9
Sk	τ Octantis	5.56	Ko	23 20 55.19	+ 8.916	+ 27	<b>-87</b> 46 26.73	+19.764	+ 11

Von den Sternen, deren Namen eingeklammert sind, folgen keine Ephemeriden.

Obere Kulmination Greenwich

1	T	ı) α Andr	omedae	2) β Cassi	oneise	3) ε Pho	onicis	7) Y Pe	moni
Ta	ıg  -	AR.	Dekl.	AR.	Dekl,	AR.	Dekl.	AR.	Dekl.
2 <del>- 1 -</del>		The second secon	-11						
194	17	oh 5 <sup>m</sup>	+28°47′	oh 6m	+58° 51′	oh 6m	-46° 2′	oh 10m	+14° 53'
Jan.		8 27 277	54.87 88	T 8 ET 4	27 62	12 612	14.50	30 OT C	18.32 81
Jan.	0 10	37.277 139	54.07 88	18.514 320	37.63 69	42.643 188	44.59 36 44.23 87	29.015 115 28.900	T7 CT
	20	37.138 133	53.99 115	18.194 309 17.885 285	36.94 120	42.455 <sub>172</sub> 42.283 <sub>152</sub>	12.12	28 701	76 60
	30	37.005 <sub>122</sub> 36.883 <sub>103</sub>	52.84 135	17.600 249	35·74 <sub>167</sub> 34·07 <sub>207</sub>	12 T2T	42.17 167	08 60T	TC 62 90
Febr.	9	26 780	51.49 151 49.98 160	17.351 200	32.00 238	12.006	40.50 203	08 606	T4 60
I ODI.	9	30.700 79				93	10 10 - 10 - 10 - 10	04	
	19	36.701 47	48.38 160	17.151 140	29.62 260	41.913 56	38.47 236	28.542 38	13.60 92
März	I	36.654 11	46.78	17.011 71	27.02 260	41.857 13	30.11	28.504 7	12.68 80
	11	36.643 =	45.23 140	16.940 -	24.33	$41.844 \frac{3}{32}$	33.48	28.497 $\frac{7}{30}$	11.88 61
	21	36.673 76	43.83	16.944 84	21.66 255	41.876 81	30.63 301	28.527 70	11.27 38
- 1	31	36.749 123	42.64 90	17.028 164	19.11 231	41.957 133	27.62 313	28.597 112	10.89 11
April	10	36.872 169	41.74 -8	17.192 242	16.80 199	42.090 185	24.49 316	28.709 154	10.78
	20	37.041 214	41.16 58	17.434 313	14.81 158	42.275 235	21.33 314	28.863	TO 07
	30	37.255 254	10.04 -	17.747	13.23 112	42.510 283	18.19 305	29.058 233	11.47 82
Mai	10	37.509 289	AT.T2	18.124	12.11 62	42.793 325	15.14 280	29.291 266	12.29
	20	37.798 316	41.69 57	18.554 470	11.49 9	43.118 361	12.25 267	29.557 293	13.42
	E FIA		95	4,0	- T	302	Committee of the last of the l	The second secon	THE RESERVE TO SHARE STORY
24	30	38.114 336	42.64	19.024 497	11.40	43.479 389 43.868	9.58 239	29.850 312 30.162 322	14.83 166
Juni	9	30.450 346	43.96 165	19.521 500	1 0- 90	409	7.19 204	30.102 323	16.49 188
	19	38.796 348	45.61 193	20.030 509	12.80	44.693	5.15 166	30.485 327 30.812 321	18.37 203 20.40 214
Juli	29	39.144 339	47.54 217	20.539 495	14.25 191	44.093 414	3.49 <sub>122</sub> 2.27 76	31.133 308	22.54 214
Jun	9	39.483 334	49.71 235	21.034 469	16.16 231	45.107 401	2.27 76	The state of the s	100 110
	19	39.807 301	52.06 247	21.503 431	18.47 267	45.508 378	1.51 28	31.441 287	24.74 220
	29	40.108 270	54.53 254	21.934 385	21.14 206	45.886	1.23 =	31.728 26T	20.94 215
Aug.	8	40.378	57.07 255	22.319 222	24.10 218	40.230	1.43 66	31.989 228	29.09 206
	18	40.613	59.02	22.051	21.20 224	46.534	2.09 110	32.217 193	31.15 192
	28	40.810 156	62.13 242	22.924 210	30.62 343	46.789 201	3.19 149	32.410 156	33.07 175
Sept.	-	40.966	64.55 229	23.134 146	34.05 345	46.990 145	4.68 181	32.566	34.82 156
Dopu.	7	41.081	66.84 212	00000	37·5° 345	I AM TOF	6.49 206	32.683 80	36.38 135
	26	<sup>23</sup> 41.156 75	68.96	1322 262	40.91 341	23 47 222	8.55 222	32.763 44	37.73
Okt.	6	AT TO2		22.282 -	1 44 20	$47.254 \frac{32}{20}$	10.77 230	32.807 12	38.85 90
91599	16	4T TOE -	70.88 169 72.57 144	22 244	47.31 285	47.234 68	13.07 226	32.819 =	39.75 67
	- The same	3	Control of the last of the las	93	and the second second	100000000000000000000000000000000000000	401-15-	32.802	40.42
	26	41.165 58	74.01 116	23.249 147	50.16 255	47.166 109	15.33 214	22 750 43	40.87 45
Nov.	5	41.107 82	75.17 87	23.102	52.71 218	47.057 143	17.47 <sub>191</sub> 19.38 <sub>162</sub>	32.759 63 32.696 81	AT TT 24
	15	41.025 100	76.04 56	22.909 233	54.89 174	46.914 168	27.00	32.615 81	$\frac{41.11}{41.13} \frac{2}{18}$
D	25	40.925 116	70.00 24	267	56.63 127	46.746 <sub>185</sub> 46.561 <sub>195</sub>	21.00 <sub>125</sub> 22.25 <sub>84</sub>	32.521 94	1005
Dez.	5	40.809 128	76.84 -7	22.409 293	57.90 75		22.23 84	-100-0-1	3/
	15	40.681	76.77	22.116	58.65 22	46.366	23.09 39	32.417 109	40.58
	25	40.547 136	76.38 39	21.005 216	58.87 =	46.109 102	23.48 -8	32.308	40.04 70
	35	40.411	75.69	21.489	58.53	45.976	23.40	32.195	39.34
2 200	FOR .			3950 2500		12.648	22.80	30.178	20.52
	l. Ort	38.539	52.48	20.115	27.16	43.648	22.89 —1.037	1.035	+0.266
	i, tg δ	1.141	+0.550	1.934	+1.655	+3.0	+20.0	+3.1	+20.0
	, a'	+3.I	+20.0	+3.1	+20.0 - 0.03	-0.07	0.03	+0.02	- 0.05
0,	b' _	+0.04	- 0.02	+0.11	0.00		THE THE PARTY	The state of the s	5000 1000

100		ACRES 45 10 7						1	
Ψs	ag	9) ι	Ceti	10) ζ Τι	ıcanae¹)	11) B H	Iydri <sup>2</sup> )	12) a Ph	oenicis
	~6	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
19	47	o <sup>h</sup> 16 <sup>m</sup>	-9° 6′	oh 17 <sup>m</sup>	-65° 10′	o <sup>h</sup> 22 <sup>m</sup>	-77° 32′	oh 23m	-42° 35′
Jan.	0	42.577 107	73.70 52	18.61	94.96 82	59.63 86	95.42 106	39.290 <sub>178</sub>	57.53
	10	42.470 102	74.22		94.14 138	58.77 80	94.36	39.112	57.42
	20	42.368 93	74.60	17.87	02.76	57.97 72	92.72	38.942	r6 87 33
	30	42.275 70	74.81	17.55	90.86	57.25 62	90.54	38.788	EE 80 90
Febr.	9	42.196 60	74.84 =	17.28 22	88.49 278	56.63 51	87.87 307	38.656 105	54.49 178
	19	42.136 36	74.67 38	17.06	85.71	56.12	84.80 87.47	28.55T	52.71 213
März	I	42.100 7	74.29 6	16.92 8	82.60 339	55.75 3/	81.41 339	28 470	
	11	42.093 =	73.68	16.84	19.21 00	55.51 <sub>9</sub>	81.41 365 77.76 380	28 111	48 T6
	21	42.119	72.84	16.84	75.63 369	55.42 7	73.96 388	38.453 55	45.49
	31	42.183	71.75 132	16.91	71.94 372	55.49 22	70.08 388	38.508 105	42.63 301
April	10	42.286	70.43	17.07 24	68.22 368	55.71 28	66.20	38.613	39.62 310
	20	42.430	00.09	17.31	64.54 357	56.00	60 AT 3/9	38.768	36.52 311
	30	42.614	0/.15	17.63 39	60-97 337	56.61 66	58.70	28 072	
Mai	10	42.835	05.24	10.02 46	57.60 337	57-27 70	55.42 306	20.224	30.35 296
	20	43.089 283	63.19 214	18.48 52	54.50 278	58.06 79	52.36 268	39.519 333	27.39 277
	30	43.372 303	61.05 218	19.00	STATE OF THE PARTY OF	58.96	ACTIVITY OF THE PARTY OF THE PA	333	
Juni	9	43.675 303	58.87 216	19.57 <sub>60</sub>	51.72 <sub>237</sub> 49.35 <sub>192</sub>	59.94 <sub>106</sub>	49.68	39.852 363 40.215 282	24.62
	19		CO 7T	20.17 62	47.43 143	67.00	47.44 174 45.70 121	40.598 383	22.09 222
	29	11 216 323	E4 62	20.79 62	146.00	62.00	1 44 40	10.002	19.87 186
Juli	9	44.636 310	F2 66	21.41 61	45. 50	62 20	1084	AT 200 39/	18.01 <sub>146</sub> 16.55 <sub>101</sub>
	10	310	179		33	110		30/	
	19 29	44.946 292	50.87 158	22.02 58 22.60 58	44.75 20	64.30	43.76 50	41.777 369	15.54 55
Aug.	8	45.238 <sub>266</sub> 45.504 <sub>236</sub>	49.29 133	22.00	44.95 75	65.34 97	44.26 106	42.140	14.99 8
B.	18	45 740	47.96 105	23.13 47	45.70 126 46.96	66.31 87 67.18 87	45.32 158	42.486 304	14.91 -
	28	45 042	16 76 15	23.60 40 24.00 32	48.69 173.	67.91 73	46.90 204	42.790 260	15.31 85 16.16
		194	40		CONTRACTOR OF THE PROPERTY.	5/	48.94 243	43.050 212	125
Sept.	7	46.106 126	45.70 18	24.32 23	50.83 246	68.48	51.37 274	43.262 161	17.41 161
	17 26*)	46.232 87	45.52 -9	24.55 13	53.29 267	68.89	54.11	43.423 108	19.02
Okt.	6	<sup>26</sup> 46.319 51	45.61 33	24.00 3	55.96 280	69.12	57.05 302	43.531	20.92 210
OAU.	16	46.370 17 46.387 17	45.94 52 46.46 68	24.71 - 5	58.76 281	69.16)	00.07	43.500 5	23.02 221
	2 12 22	BO BOS 175755	40.40 68	14 a 14	61.57 270	69.01 32	63.07 284	43.591 =	25.23 224
	26	46.375 39	47.14 80	24.52 22	64.27 248	68.69 48	65.91	43.551 80	27.47 215
Nov.	5	40.330	47.94 85	24.30 28	1 00.75	68.21	1 00.40	43.471	29.62 199
	15	46.276 78	48.79	24.02 33	00.90	67.59	70.67	43-357 140	31.61 173
D	25	40.190 00	49.66 84	24.02 23.69 37	124	00.85	12.39 117	43.217 161	33.34 141
Dez.	5	46.108 99	50.50 80	23.32 40	71.87 69	66.04 87	73.56 57	43.056	34.75 103
	15	46.009 104	51.30	22.92 40	72.56	65.17 89	74.13	42.882 180	35.78 <sub>61</sub>
	25	45.905	52.00 59	22.52	72.67 -	64.28 88	74.08 68	42.702 181	36:39 16
	35	45.800	52.59	22.52 39	72.20	63.40	73.40	42.521	36.55
Mittl	. Ort	43.614	63.10	19.38	69.86	59-97	69.25	40.141	26.48
sec δ,	A DOMESTICS H	1.013	-0.161	2.383	-2.163	4.639	-4.530	1.358	36.78 —0.919
a,	a'	+3.1	+20.0	+2.9	+20.0	+2.5	+19.9	+2.9	+19.9
<i>b</i> ,	b'	-0.0r	- 0.07	-0.14	- o.o8	-0.30	- 0.10	-0.06	- 0.10
	1) Die	iährliche Perelle	St. Section of the					A STATE OF	

Die jährliche Parallaxe (0"133) ist bereits berücksichtigt.
 Die jährliche Parallaxe (0"143) ist bereits berücksichtigt.
 Stern 11) und 12) lies Sept. 27.

		13) 12	Ceti	17) ζ Cass	iopeiae	18) π And	lromedae	20) 8 And	romedae
Ta	g	AR.	Dekl.	AR.	Dekl.	AR.	Dekl	AR.	Dekl
19	47	oh 27 <sup>m</sup>	-4° 14′	oh 33 <sup>m</sup>	+53° 36′	o <sup>h</sup> 34 <sup>m</sup>	+33° 25′	o <sup>h</sup> 36 <sup>m</sup>	+30° 34'
Jan.	0	18.989 108	68.32 60	58.992 266	29.80	1.448 <sub>155</sub>	44.65 64	28 131 146	19.92 6
	10	18.881	68.92	58.726 265	29.39	1.293	44.01	27.985	19.27
	20	18.776	69.42 38	58.461 252	28.49	1.138 148	43.06	27.838	18.34 116
	30	18.678	69.80	58.208	27.14	0.990	41.84	27.097	17.18
Febr.	9	18.593 69	70.04 7	57.978 196	25.40 206	0.856 113	40.41	27.569 108	15.83 148
	19	18.524 45	70.11	57.782 150	23.34 229	0.743 83	38.82 166	27.461 80	14.35 155
März	I	18.479 18	69.99 32	57.632 95	21.05	0.660	37.16	27.381 45	12.80
	II	18.461 = 16	69.67	57.537 32	18.64	0.613	35.49 159	27.336	11.27
	21	18.477 53	69.12	57.505 =	10.21	0.609 44	33.90	27.332 -	9.03 728
	31	18.530 92	68.33 103	57.542 107	13.00 217	0.653 94	32.48 120	27·373 90	8.55 104
April	10	18.622	67.30 127	57.649 178	11.69 189	0.747 144	31.28 90	27.463 140	7.51 76
	20	18.755	66.03 150	57.827 246	9.80	0.891 194	30.38 57	27.603 187	6.75 42
М-:	30	18.929 213	64.53	58.073 308	0.27	1.005 240	29.81 19	27.790 233	6.33 6
Mai	10	19.142 246	62.82 187	58.381 360	7.15 67	1.325 280	29.62 21 29.83 61	28.023 273	$6.27 {32}$
	20	19.388 276	60.95 201	58.741 404	6.48	1.605 314	29.83 61	28.296 305	6.59 69
	30	19.664 298	58.94 209	59.145 436	6.30	1.919 338	30.44 98	28.601 330	7.28 106
Juni	9	19.962 313	56.85 212	I FO EXT	6.61 79	2.257 254	31.42	20.931 247	8.34
	19	20.275 321	54.73 211	60.036 453	7.40 126	2.011 261	32.76 168	29.278 354	9.74
T 1:	29	20.590 319	52.62 203	1 00.499	8.66	2.972 350	34.44 195	29.632 351	11.45 106
Juli	9	20.915 309	50.59 190	60.957 458	10.35 208	3.331 346	36.39 219	29.983 341	13.41 218
	19	21.224 293	48.69 174	61.399 416	12.43 242	3.677 327	38.58 238	30.324 322	15.59 233
	29	21.517	40.95	01.815	14.85	4.004 201	40.96	30.646	17.92
Aug.	8	21.787 241	45.43 128	02.190 228	17.50	4.305 268	1 43.45 25	30.943 265	20.35
	18	22.028 207	44.15 102	02.5.34	20.49 309	4.573 232	46.02 258	31.208 230	22.83 247
	28	22.235 172	43.13 74	62.824 239	23.50 319	4.805 192	48.60 255	31.438 192	25.30 243
Sept.	7	22.407 134	42.39 47	63.063 185	26.77 323	4.997 152	51.15 247	31.630 153	27.73 232
	17	22.541	41.92 20	63.248	30.00 320	5.149 112	53.62	31.783 113	30.05
	27	22.639 62	41.72 -	63.378 76	33.20	5.26I 7 <sup>2</sup>	55.90 217	31.896 75	32.25 202
Okt.	6	22.701 29	41.75 25	63.454 24	36.31 297	5.333 34	58.13 199	31.971 38	34.27 182
	16	22.730 2	42.00 42	63.478 =	39.28 275	5.367 =	60.12	32.009 5	36.09 160
	26	22.728 27	42.42 56	63.452	42.03 249	5.366	61.87 150	32.014 26	37.69 134
Nov.	5	22.701 50	42.98 66	63.379 117	144.52	5.334	03.37	31.988 54	39.03
	15	22.051	43.64 72	03.202	46.69	5-274 86	64.59 90	31.934 <sub>78</sub>	40.11 79
_	25	22.584 83	44.30 75	03.100	120		03.49 59	31.050 00	49
Dez.	5	22.501 93	45.11 73	62.915 220	49.84 90	5.081 125	66.08 25	31.757 117	41.39 18
	15	22.408 101	45.84 70	62.695 242	50.74 42	4.956 139	66.33	31.640 130	41.57 14
	25	22.307 104	46.54 64	62.453 257	51.16 - 9	4.817 148	66.24 42	31.510 140	41.43 45
	35	22.203	47.18	62.196	51.07	4.669	65.82	31.370	40.98
	. Ort	19.979	59.57	60.284	19.96	2.573	40.32	29.225	16.44
sec 8	, tg δ	1.003	-0.074	1.685	+1.357	1.198	+0.660	1.161	+0.591
	a'	+3.1	+19.9	+3.3	+19.8	+3.2	+19.8	+3.2	+19.8
<i>b</i> ,	b'	0.00	- 0.12	1+0.09	- o.15	+0.04	- o.15	+0.04	— o.16

Ta	.0	21) α Cas	siopeiae	22) β	Ceti	25) o Cass	siopeiae	24) 21 Ca	ssiopeiae
	ъ	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
19	47	oh 37 <sup>m</sup>	+56° 14'	0 <sup>h</sup> 40 <sup>m</sup>	-18° 16′	0 <sup>h</sup> 41 <sup>m</sup>	+47° 59′	0 <sup>h</sup> 42 <sup>m</sup>	+74°41'
Jan.	0	27.782 292	59.89	54.941 119	51.25	44.439 222	49.48	4.79 74	69.32
	10	27.490	FO F6 33	54.822	ET 72 4/	44.217 224	49.07 86	4.05 73	60 11 -
	20	27.199	E8 72	54.704 112	51.93	43.993 216	48.21 125	3.32	68.80
	30	20.920	57.41 172	54·59 <sup>2</sup> 101	51.80	43.777	46.96 161	2.01	67.78 166
Febr.	9	26.664 219	55.69 207	54.491 83	5T.58 31	43.579 171	45.35 189	1.96 57	66.12
	T.O.			-3	39				64.00
März	19	26.445 <sub>170</sub> 26.275 <sub>112</sub>	53.62 232	54.408 61	50.99 85	43.408	43.46 209	1.39 46	64.00
MIGIZ	II	26 Th2	51.30 246	54.347 34	50.14	43.275 86 43.189 32	41.37 220	0.93 32	61.50 277
	21	26 T20 43	48.84 <sub>251</sub> 46.33 <sub>245</sub>	54.313	49.02 138 47.64 162	10 7 7 7	39.17 <sub>221</sub> 36.96 <sub>212</sub>	0.61 18	58.73 <sub>291</sub> 55.82 <sub>204</sub>
	31	26.149 29	43.88 227	54.313 <sub>38</sub> 54.351 <sub>78</sub>	46.02	43.157 = 28 $43.185 = 02$	34.84 193	0.43 2	F2 88 294
and the	3-			/-		92	1 10 3 - 10		205
April	10	26.254 181	41.61 202	54.429 121	44.18 205	43.277 156	32.91 166	0.55 29	50.03 264
	20	26.435 253	39.59 167	54.550 163	42.13 221	43.433 217	31.25 133	0.84 44 1.28 57	47.39 234
M-:	30	20.000 319	37.92 125	54.713 204	39.92 233	43.650 273	29.92 93	1.28	45.05 195
Mai	10	27.007 376	36.67 80	54.917 241	37.59 240	43.923 322	28.99 50	1.05 68	43.10
	20	27.383 376	35.87 32	55.158 273	35.19 244	44.245 364	28.49 4	2.53 78	41.61 99
	30	27.805 457	35.55 19	55.431 300	32.75 240	44.609 395	28.45 42	3.31 <sub>84</sub>	40.62
Juni	9	20.202	35.74 68	55.731 218	30.35	45.004	28.87 88	4.15 88	40.17
	19	20./41 487	36.42	50.049	28.04	45.418	29.75 131	5.03 or	40.28 65
	29	29.220	37.57 Thr	50.377 331	25.88	45.842	31.00	5.94 80	40.93
Juli	9	29.711 483	39.18 202	56.708 324	23.93	46.263 409	32.76 205	6.83 87	42.12 168
	19	20.178	41.20 237	57.032 310	22.23 141	46.672 387	34.81 236	7.70 83	43.80 215
	29	30.618	43.57 268	57.342 289	20.82 108	47.059 356	37.17 261	8.53 75	45.95 257
Aug.	8	31.022 360	46.25 293	57.631 261	TO 74	47.415 319	39.78	9.28 67	40.52
	18	31.382 310	49.18 212	57.892	19.01 73	47.734	42.58 202	9.95 00	51.44 222
	28	31.692 257	52.30 323	58.119 192	18.63	48.012 232	45.51 301	10.54 47	54.66 346
Sept.	7	31.949 200	Telegraph 100 11 7 1	58.311	18.60	48.244 183		11.01 36	-0 TO
o por	17	32.149	55.53 <sub>329</sub> 58.82 <sub>328</sub>	58.464 114	T8 OT 31	48.427	48.52 <sub>302</sub> 51.54 <sub>298</sub>	11.37 25	6T 71
	27	22 20T	1 62 TO	I 5X.57X	TOFO	48.562 88	54.52 287	11.62	65.45
Okt.	6	32.291 84	65.31 308	258.653	20.38 106	18 650	57.39 273	<sup>2</sup> 11.75 1	69.17
	16	$32.403 \frac{26}{26}$	68.39 288	58.692 7	21.44	$48.691 \frac{41}{4}$	60.12 252	11.76 =	72.84 353
	-6	AND THE RESERVE OF THE PERSON	5.40 L S	the same that he had been a second		The last the second		the state of the s	353
Nov.	26	32.377 77	71.27 261	58.699 24	22.65 129	48.687 48.642 82	62.64 226	11.64 23	76.37 79.68 331
IVOV.	5	32.300 124 32.176 168	73.88 230 76.18 102	58.675 49 58.626 79	23.94 130	48.042 83	64.90 196 66.86 161	11.41 33	82.69 301 82.69 263
	15 25	22 008	78.TI 193	-86 T	25.24 126	48.559 119 48.440 150	68.47 122	10.63 45	85.32 218
Dez.	5	31.802 <sub>206</sub>	78.11 149 79.60 103	58.468 101	26.50 115 27.65 100	48.290 176		10.09 61	87.50 166
			ting the state of	AND THE PERSON NAMED IN		The second second	79	College Colleg	E C. C. L. L
	15	31.563 264	80.63	58.367 110	28.65 82	48.114 198	70.48 34	9.48 68	89.16
	25	31.299 281	81.15	58.257 116	29.47 60	47.916 212	70.82 11	8.80 8.08 72	90.26 49
1 1	35	31.018	81.16	58.141	30.07	47.704	70.71	8.08	90.75
	L Ort	29.079	49.40	55.784	37.89	45.617	40.88	6.51	55.65
	, tg δ	1.800	+1.496	1.053	-0.330	1.494	+1.110	3.789	+3.655
	a'	+3.4	+19.8	+3.0	+19.7	+3.3	+19.7	+4.0	+19.7
<i>b</i> ,	b'	+0.10	- o.16	-0.02	- o.18	+0.07	- o.18	+0.24	- o.18

-		27) ζ And	lromedae	32) γ Cas	gionoigo	20) 4-	11	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	11 - 12 -
Ta	ıg	AR.	Dekl.	AR.	Dekl.	33) μ And			culptoris
					100		Dekl.	AR.	Dekl.
194	47	o <sup>h</sup> 44 <sup>m</sup>	+23°58′	oh 53 <sup>m</sup>	+60° 25'	oh 53 <sup>m</sup>	+38° 12′	oh 56 <sup>m</sup>	-29° 38′
Jan.	0	30.409 131	46.68	28.22	60.44	47.133	50.49	8 525	72.06
	10	30.278 131	46.05 63	28.22 27.88 34 27.54 34	60.28	16 062	50.07 78	2.535 143	53.26 53.66 40
	20	30.144	45.21		59.79	46.787 172	49.29 78	2.392 144 2.248 139	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
	30	30.014	44.20	27.20.	58.69	46.615 161	48.20	2.109 128	F2 28 3"
Febr.	9	29.895 102	43.06	26.89 31	57.13 196	46.454 142	46.83 137	1.981	F2 60
100	19	29.793 78	41.84	26.61 23		46.312		111	105
März	I	00 777	1 40 00	26.38 23	55.17 <sub>226</sub> 52.91 <sub>247</sub>	46.200	45.25 172	1.870 88	51.64 138
	II	20 660	20 41	26.22 8	50.44 258	16 TOT 15	43.53 179 41.74 176	1.723 59	50.26 169
	21	20.660	38.33	26.T4	47.86 258	46.094 =	39.98 165	T 600 -	48.57 197 46.60 233
	31	20.604 34	37.42 68	26.14 8	45.30 244	1 10 112	38.33	T.715	44.37 244
A ===11		79	00			/-		39	2-12-1-1
April	10	29.773 126	36.74 40	26.22	42.86	46.185 128	36.87	1.774 104	41.93 261
	20	29.899 172	36.34 <sup>9</sup> 36.25 <del>-</del>	26.38 25	40.63 192	46.313 182	35.66 89	1.878	39.32 274
Mai	30	30.071 215 30.286 255	26 50 43	26.63 33 26.96 39	38.71	46.495 232	34.77 53	2.029 196	36.58 280
	20	30.541 287	37.08	27.35 <sub>45</sub>	37.17 111 36.06 62	46.727 <sub>278</sub> 47.005 <sub>316</sub>	34.24 34.10 = 36	2.225 237	33.78 282
			92		30.00 63	47.003 316	34.10 26	2/4	30.96 276
25	30	30.828 313	38.00	27.80 50 28.30 52 28.82 53	35-43 13	47.321	34.36 67	2.736 304	28.20 265
Juni	9	31.141 330	39.24 152	28.30	35.30 38	47.000 266	35.03 106	3.040 228	25.55 246
	19	31.4/1 220	40.76	28.82	35.68 87	48.032 377	36.09 141	3.308 343	23.00
Juli	29	31.810 338 32.148 338	42.53 197	29.35 54	36.55	48.409 378	37.50	3.711	20.86
Jun	9	330	44.50 212	29.89 54	37.89 179	48.787 378 369	39.24 203	4.060 349	18.94 158
	19	32.478 314	46.62	30.41 50	39.68	49.156	41.27 225	4.406	17.36 120
-0.4	29	1 32./92 201	48.85	30.91 16	41.86	1 49.509 008	43.52	4.741 335	16.16 78
Aug.	8	33.083 261	51.12	31.37 42	44.38 282	49.837 207	45.95 256	5.055 288	15.38 36
	18	33.344 229	53.39 221	31.79	47.20 305	50.134 262	48.51 262	5-343 255	15.02 - 7
	28	33-573 194	55.60 213	32.16 37	50.25 305	50.397 223	51.14 264	5.598 218	15.09 49
Sept.	7	33.767 156	57.73 199	32.47 25	53.47 332	50.620 182	53.78 261	5.816	15.58 87
	17	33.923 119	159.72	32.72 19	150.70	50.802	56.39 253	5.002	16.45
	27	34.042 83	01.50	32.91	1 00.17	50.943 101	58.92	6.126	17.65
Okt.	6	<sup>3</sup> 34.125 48	03.21	5 33.03 6	03.49	51.044 60	01.33	6.218	19.13 ,60
	16	34.173 16	64.65	33.09	66.74 308	51.104 23	63.58 204	6.269 13	20.81 180
	26	34.189	65.88	33.09 6	60.82	51.127	65.62	6.282	22.61 184
Nov.	5	24 776	66.88	33.03 12	72.68 257	12	67.42	6.260	24.45
	15	34.136 63		32.91 18	75.25 222	51.069	68.96 123	6.207 53	-26.26 <sub>168</sub>
	25	34.073 83	68.16 52	32.73 22	77.47 180	50.994 75	'/(J. 1 L)	6.128 79	27.94 149
Dez.	5	33.990 101	68.42	32.51 <sub>26</sub>	79.27 133	50.892 126	71.10 55	6.027 118	29.43
	TE	CONTRACTOR OF THE PARTY OF THE	68.43	100	0	50.766	77.65	200 100	30.67
	15 25	33.889 114	68 20 2	32.25 <sub>30</sub>	80.60 83 81.43 30	50.620	77 84 -	5.909 <sub>131</sub> 5.778 <sub>140</sub>	21 62 93
	35	33.775 <sub>124</sub> 33.651	67.72	31.95 <sub>32</sub> 31.63	81.73	50.460	71.65	5.638	32.22
		333-		3-1-3	73			3 -3-	The Control of the Co
Mittl.		31.421	45.24	29.43	48.87	48.164	44.42	3.198	36.60
sec δ,			+0.445		+1.762	THE RESERVE OF THE PARTY OF THE	+0.787		<b>—0.569</b>
a,			+19.7	HONNE STREET	+19.5	Contract of the Contract of th	+19.5		+19.4
<i>b</i> ,	0	+0.03	— o.19	+0.11	— o.23	+0.05	- o.23	<b>-0.04</b>	0.24

Ta	g	36) ε Pi	iscium	1031) v P	hoenicis	42) β And	romedae	45) v P	iscium
		AR.	Dekl.	AR.	Dekl.	AR.	DekL	AR.	Dekl.
19	47	I <sub>p</sub> O <sub>m</sub>	+7° 36′	r <sup>h</sup> 5 <sup>m</sup>	-41° 45′	1 <sup>h</sup> 6 <sup>m</sup>	+35° 20′	<b>1</b> <sup>h</sup> 16 <sup>m</sup>	+26° 59′
Jan.	0	10.508	14.93 63	22.281 188	91.89	44.447 158	29.74 36	31.958	12.74 40
	10	10.396 116	14.30 66	22.093 -00	92.19 $\frac{30}{16}$	44.289 165	29.38 68	31.824	12.34 64
	20	10.280	13.64 65	21.004	92.03 62	44.124 -	28.70 97	31.681 143	11.70 84
	30	10.165	12.99 62	21.721	91.41	43.958	27.73	31.534 141	10.86
Febr.	9	10.056 96	12.37 55	21.551 150	90.34 149	43.799 142	26.51 142	31.393 129	9.84 114
	19	9.960 76	11.82 46	21.401 124	88.85 188	43.657 117	25.09 155	31.264 108	8.70
März	1	9.884	11.36	21.277 91	86.97	43.540 83	23.54 -60	31.156 79	7.49 121
	II	9.833 18	11.04 14	21.186	84.74	43.457 41	21.92	31.077 43	6.28
	21	9.815 =	10.90 7	21.135 6	82.21	43.416 -6	20.33	31.034 <sub>1</sub>	5.11 104
	31	9.835 60	10.97 30	21.129 - 43	79.42 299	43.422 57	18.83	31.033 - 45	4.07 86
April	10	9.895 104	11.27	21.172 94	76.43 313	43.479 110	17.51 108	31.078	3.21 62
	20	0.000	II.82 Q.	21.266	13.30 321	43.589 164	16.43	31.173 144	2.59 35
	30	10.140	12.63 108	21.412 198	10.09 222	43.753 214	15.64 45	31.317 192	2.24 4
Mai	10	10.335	13.71 132	21.610 246	66.87 316	43.967 260	15.19 8	31.509 235	2.20 29
	20	10.562 259	15.03 154	21.856 289	63.71 304	44.227 299	15.11 29	31.744 273	2.49 62
	30	10.821 287	16.57	22.145 326	60.67 284	44.526 44.856	15.40 67	32.017 304	3.11 94
Juni	9	11.108	18.30 188	22.471 355	57.83 257	44.856 352	16.07 104	32.321	4.05 124
	19	11.414 0	20.18	22.471 22.826 376	55.20 224	44.850 352 45.208 366	I7.II	32.040	5.29
	29	11.732	22.15 203	23.202	53.02 787	45.574 260	18.48 167	32.988	6.80
Juli	9	12.053 316	24.18 203	23.587 386	51.15 143	45.943 363	20.15	33.335 343	8.54 193
	19	12.369 304	26.21	23.973 376	49.72 96	46.306 46.656	22.09 215	33.678 332	10.47 207
100	29	12.0/3 -0-	20.10 187	24.349 357	48.70		24.24	34.010	12.54 216
Aug.	8	12.958 267	30.05	24.700 329	48.29	46.984	20.54	34.324 200	14.70 219
	18	13.219	31.78 156	25.035	48.32 52	41.205 260	20.90	34.614 261	16.89
	28	13.450 199	33.34 135	25.328 252	48.84 98	47.554 232	31.43 248	34.875 228	19.08 215
Sept.	7	13.649 166	34.69 113	25.580 206	49.82	47.786	33.91 244	35.103 193	21.23 205
	17	13.815 130	35.82 go	25.786	51.21 176	47.980	36.35 226	35.296	23.28 192
01	27	13.945 96	36.72 68	25.943 107	52.97 204	48.135 116	38.71	35.453 121	25.20 178
Okt.	-7	7 14.041 63	37.40 46	26.050 58	55.01 223	48.251 77	40.95 208	35.574 87	26.98 161
	16	14.104 34	37.86	26.108	57.24 233	848.328 41	43.03 190	35.661 53	28.59 142
1000	26	14.138	38.11 6	26.118	59-57 234	48.369 7	44.93 167	35.714 22	30.01 120
Nov.	5	14.143 = 20	38.17 -	26.086 72	61.91	$48.376 \frac{7}{26}$	46.60	35.736 -8	31.21 99
	15	14.123 43	38.08	20.014	04.14	48.350 56	48.02	35.728 37	32.20 76
Dez.	25	14.080 62	37.84 36	25.909 124	66.18 176	48.294 84	49.17 85	35.691 62	32.96 51
Dez.	5	79	37.48 45	25.775 156	07.94 142	40.210	50.02	35.629 85	33.47 27
A BOY	15	13.939 94	37.03 54	25.619 173	69.36 101	48.102 129	50.55 19	35-544 105	33.74 I
	25	13.845	36.49	25.440 182	70.37 58	47.973	50.74 -	35.439 123	33.75 24
	35	13.741	35.90	25.263	70.95	47.826	50.61	35.316	33.51
	l Ort	11.356	18.93	22.744	72.14	45.384	24.36	32.799	9.86
	$t, tg \delta$	1.009	+0.134	1.341	<b>—</b> 0.893	1.226	+0.709	1.122	+0.509
	a'	+3.1	+19.4	+2.7	+19.2	+3.3	+19.2	+3.3	<del></del> 18.9
ь,	b'	0.01	— o.26	Io.o6	— o.28	1+0.05	- 0.29	1-+0.03	- 0.33

m'a		47) <del>3</del> (	Ceti	48) δ Cas	siopeiae	50), η Pi	scium	51) 40 Ca	ssiopeiae
Та	g	AR.	Dekl.	AR.	Dekl,	AR.	Dekl.	AR.	Dekl.
194	17	I <sup>h</sup> 2I <sup>m</sup>	-8° 27'	1 h 22 m	+59° 57′	1 <sup>h</sup> 28 <sup>m</sup>	+15° 4′	1 <sup>h</sup> 34 <sup>m</sup>	+72° 46′
Jan.	0	21.732 113	31.99 67	18.762 320	49.88	37.839 114	22.66	13.18 60	29.15 76
- Cux	10	21.619 120	22.66		FO T7 -	37.725 125	22 75 51	12.58 64	20 OT
	20	21.499 122	33.18	18.106 33	40.02	37.600 129	21.55 68	11.94 65	30.08 -
	30	21.377 118	22.5T 33	17.767 339	49.93 75	37.471 128	20.87	11.29	29.65
Febr.	9	21.259 109	23.65	17.440 300	47.96 165	37.343 119	20.15	10.67 59	28.64
		202	43.00	Charles and the state of the	103		/4	59	
M:	19	21.150 92	33.58 30	17.140 <sub>258</sub> 16.882	46.31 200	37.224 103	19.41 71	10.08 51	27.12 198
März	I	21.058 68	33.28 52	16.681	44.31 226	37.121 78	18.70 64		25.14 235
	11 21	20.990 39 20.951 3	32.76 76 32.00 76	16.549 54	42.05 243	37.043 46	55	9.16 30 8.86 17	22.79 261 20.18 276
	.31	22 240 =	20.00	$16.495 \frac{54}{30}$	39.62 248	36.997 10 36.987 22	17.53 <sub>36</sub>	8 60 17	17 42
	. 31	30		THE PERSON NAMED IN	37.14 242	33	17.17 17	150 P. S.	2/9
April	10	20.984 78	29.74 148	16.525 116	34.72 228	37.020 79	17.00	8.66	14.63 271
	20	21.062	28.20	16.641	32.44 202	37.099 124	17.07	8.77 26	11.92
	30	21.184 165	26.56	16.842 281	30.41 170	37.223 168	17.40 59	9.03 38	9.39 225
Mai	10	21.349	24.67 204	17.123	28.71 132	37.391 211	17.99 87	9.41	7.14 189
	20	21.554 241	22.03 215	17.477 416	27.39 89	37.602 248	18.86	9.92 62	5.25 146
	30	21.795 271	20.48	- 17.893 467	26.50 42	37.850 279	19.98 136	10.54 70	3.79 100
Juni	9	22.066	18.20	10.300	26.08 -6	38.129 302	21.34	II.24 76	2.79 50
	19	22.300	10.03	18.864 528	26.14 54	38.431	22.91	12.00	2.29 -
	29	22.0/0 218	13.03	19.392 537	26.68	38.749 226	24.05 786	12.82 82	2.31
Juli	9	22.988 318	11.74	19.929 534	27.68	39.075 326	26.51 194	13.65 84	2.85 54
	19	23.306 310	9.80	20.463 519	29.12 186	39.401	28.45 197	14.49 82	3.89 151
	29	23.616 295	8.07 150	20.002	30.98 221	39.718 317	30.42	15.31	5.40 196
Aug.	8	23.911 274		21.474 456	33.19 253	10.020	32.36 188	10.10	7.36 237
	18	24.185 247	5.26		35.72 280	40.302 282	34.24 178	16.83 67	9.73
	28	24.432 217	4.45 59	22.342 361	38.52 299	40.557 226	36.02 163	17.50 60	12.45 301
Sept.		A STATE OF THE PARTY OF THE PAR	- 96			The second of th	STATE OF STREET	AUTO-CONCENSION OF THE	15.46 326
Dept.	7 17	24.649 185	3.58 =	22.703 305	41.51 314	40.783 195	37.65 146	18.16 51 18.61 41	1 TX 72
	27	24.834 <sub>150</sub> 24.984 <sub>115</sub>	3.61	22 255	44.65 322	41.139 128	39.11 128 40.39 109	19.02 41	20 14
Okt.	7	00000	2.OT	22 112	47.87 324 51.11 320		41.48 88	19.34 21	1 60 354
	16	25.181 50	1.45	22 567	54.31 310	41.363 65	42.36 69	19.55 11	25.00 358
		A STATE OF THE PARTY OF THE PAR	/4	OF STREET, STR	CONTRACTOR OF THE PARTY OF THE		-		TO SECURE A SECURE AND ADDRESS OF THE PARTY
N	26	25.231 20	5.19 88	23.631 3	57.41 292	41.428	43.05 50	19.66	32.79 <sub>342</sub> 36.21 <sub>223</sub>
Nov.	5	25.251 7	6.07 98	23.634 58	60.33 269	41.463 7	43.55 31 43.86 15	19.65	
	15	25.244 32	7.05 102	23.576 114	63.02 238	41.470 19	43.80 15	19.54 22	39-44 <sub>296</sub> 42.40 <sub>260</sub>
Dez.	25	25.212 54	8.07 101 9.08 06	23.462 169	202	41.451 41.407 66	14400	19.32 32	45.00 218
Doz.	5	25.158 74	9-	23.293 220	67.42 160	Charles Control	100000000000000000000000000000000000000	CONTRACTOR OF THE PARTY OF THE	The second second second
	15	25.084 90	10.04 87	23.073 262	69.02	41.341 85	43.84 30	18.58 18.08 50 17.51	47.18 168
	25	24.994 104	10.91	22.811 298	70.16 63	41.256 103	43.54 42	18.08	48.86
	35	24.890	11.66	22.513	70.79	41.153	43.12	17.51	49.99
Mitt	l. Ort	22.371	22.78	19.706	38.17	38.560	23.58	14.03	15.36
	δ, tg δ	1.011	-0.149	1.998	+1.729	1.036	+0.269	3.376	+3.225
	, a'	+3.0	+18.8	+3.9	+18.8	+3.2	+18.6	+4.8	<del>+</del> 18.4
	, b'	-0.0I	- o.35	+0.11	- o.35	+0.02	<b>- 0.38</b>	+0.20	<b>—</b> 0.40

-	-2 4	52) 51 An	dromedae	54) a E	ridani	55) 43 Cas	siopeiae	57) φ	Persei
T	ag	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
19.	47	1 <sup>h</sup> 34 <sup>m</sup>	+48° 21′	1 <sup>h</sup> 35 <sup>m</sup>	-57° 29′	1 <sup>h</sup> 38 <sup>m</sup>	+67° 46′	1 40 m	+50° 25'
Jan.	0	42.776 209	47.14	44 807	101.50	22.22	46.75 60	18 602	31.20
oun.	10	42.770 209	47 00 -	44.807 312 44.495 319	101.91 41	22.23 21.78 45 27.78 47	17 11	18.692 <sub>220</sub> 18.472 <sub>240</sub>	2T 47 =
	20	42.341	47 OT	44.176 317	101.74 72	21.31	17 56 -	18.232	27 28
	30	42.107	46.32 69	43.859 303	101.02	20.82	47 TT TJ	17.983 246	30.67 103
Febr.	9	41.877 215	45.24 142	43.556 279	99.76	20.35 47	46.12 99	17.737 231	29.64 138
	19	. 41.662 <sub>188</sub>	43.82	43.277 247	97.99 222	10.01	44.63 <sub>191</sub>	17.506 205	28.26
März	I	41.474	42.12	43.030	95.77 262	1 4.12	1 42.72	17.301	20.50
	II	41.325	40.23	42.826	93.14 298	19.20	40.46	17.136	24.67
	21	41.224 44	38.23 202	42.072 95	90.16 326	18.97	31.90 262	17,022 56	22.03
	31	41.180 44	36.21 195	42.577 31	346	18.84 2	35.33 265	16.966 - 9	20.55 203
April	10	41.199 85	34.26 179	42.546	83.44 360	18.82	32.68 257	16.975 78	18.52
	20	41.284	32.47	42.583	79.84 267	18.02	30.11	17.053 146	10.04
M.:	30	41.434 214	30.92	42.691 178	76.17 365	19.12 31	27.73 210	17.199 213	14.97
Mai	10	41.648 272	29.67 89	42.869 246	72.52 355	14.43	25.63 175	17.412 275	13.00
	20	41.920 324	28.78 50	43.115 308	68.97 337	19.84 50	23.88 175	17.687 275	12.58 64
T:	30	42.244 366	28.28 9	43.423 364	65.60 313	20.34	22.55 87	18.015	11.94 22
Juni	9	42.010	28.19 = 33	43.707	02.47 280	20.91 62	21.68 39		11.72 _ 20
	19	43.008 420	28.52 75	44.199 449	59.67 241	21.53 65	21.29 -		11.92 63
Juli	29 9	43.428 430 43.858 431	29.27	44.040	57.26 195	22.18 68 22.86 68	21.40 61		12.55 103
oun		73-	30.41 150	45.122 486	55.31 144		22.01 109	19.672 446	13.58
	19	44.289 420	31.91 184	45.608 487	53.87 91	23.54 67	23.10	20.118 437	14.99
h	29	44.709 402	33.75 212	40.095	52.96 34	24.21 64	24.05	1 20.333	110.74
Aug.	8 18	45.111 376	35.87 235	46.567 446	52.62 24	24.85 60	26.61 234	20.974 302	18.80 232
	28	45.487 342	38.22 254 40.76 268	47.013 409	52.86 79	25.45 26.00 55	28.95 267	21.366 360 21.726 323	21.12 202
<b>C</b> .		45.829 304		47.422 361	53.65 133	49	31.62 294	3-2	23.64 268
Sept.	7	46:133 263	43.44 275	47.783 303	54-98 181	26.49 43	34.56 316	22.048 280	26.32 278
	17	46.396 219	46.19 279	40,000	56.79 222	20.92	31.14	22.328 234	29.10 282
Okt.	27	46.615 175	48.98 276	48.326 172 48.498 103	59.01 254	27.27	41.04	22.562 189	31.92 283
OKO.	7 16*)	46.790 129	51.74 269	16 48 600	61.55 <sub>277</sub> 64.32 <sub>287</sub>	27.54 19 27.73 11	44.44	22.751 141 22.892 04	34.75 277
	5 U.S	46.919 83	54.43 257	3"		and the second	47.86 342 338	17	37-52 267
Nov	26	47.002 38	57.00 240	48.632 35	67.19 287	27.84 3	51.24 326	22.986 47	40.19 251
Nov.	5	47.040 -6	59.40 218	48.597 99	70.06 275	27.87 -6	54.50 306 57.56 280	23.033	42.70 230
	15	47.034 48 46.986 89	61.58	48.498	72.81 252	27.81	57.50 280	23.033 45 22.988 90	45.00 204
Dez.	25 5	46.897 127	63.50 159 65.09 125	48.343 <sub>206</sub> 48.137 <sub>247</sub>	75.33 218 77.51 176	27.67 22 27.45 30	60.36 245 62.81 204	22.898 90	47.04 <sub>173</sub> 48.77 <sub>137</sub>
					State Shirt	THE RESERVE OF THE PARTY OF THE		22.768 167	
	15 25	46.770 161. 46.609 190	66.34 85 67.19	47.890 <sub>279</sub> 47.611 <sub>302</sub>	79.27 <sub>128</sub> 80.55 73	27.15 36 26.79 41	64.85 156 66.41 104	22.601 200	50.14 98 51.12 55
	35	46.419	67.62 43	47.309	81.28 73	26.38	67.45	22.401	51.12 55
Mittl	. Ort	43.581	27.04	44.585	79.52	23.03	33.65	19.461	21.49
	$tg\delta$	1.505	37·94 +1.125	1.861	-1.570	2.644	+2.447	1.570	+1.210
	a'	+3.7	+18.4	+2.2	+18.3	+4.4	+18.2	+3.8	+18.2
b,		+0.07	- o.4o	-0.10	- o.4I	+0.15	- o.42	+0.07	- o.42
2 34 34	10 P. T. L.	Walter water		1-36-55 - 1-50 -	Target and the		30000	The world to	N 12 - 1 - 2

<sup>\*)</sup> Bei Stern 57) lies Okt. 17.

		59) τ C	leti 1)	60) o P	iscium	61) € Scu	Intoria	62) Ç	Coti
Ta	ıg	AR.	Dekl.	AR.	Dekl.	AR.	Dekt.	AR.	Dekt.
	N. S				100	HANNER PURE	The second second	100	
19	47	I <sup>h</sup> 4I <sup>m</sup>	-16° 12′	1 <sup>h</sup> 42 <sup>m</sup>	+8° 53′	1 <sup>h</sup> 43 <sup>m</sup>	-25° 18′	1 <sup>h</sup> 48 <sup>m</sup>	-10° 35′
Jan.	0	35.826 123	68.76	34.850 107	27.57 55	9.462	74.45 76	50.103 111	55.31 75
	10	35.703 133	69.47 71	34.743 120	27.02	9.327 145	75.2T	40 000	16 06 13
	20	35.570 138	69.93 20	34.623	26.45 57	9.102	75.65	10.868	1664
	30	35.432 726	70.13 -8	34.496	25.87 56	0.032	75.74	49.738	F7 00
Febr.	9	35.296 138	70.05 37	34.368	25.31 51	8.884 140	75.47 63	49.606 132	57 T2
	το.	THE CHARLES THE RESERVE	69.68	AND THE RESERVE AND THE PERSON NAMED IN	24.80		74.84	THE RESERVE OF THE PARTY OF THE	
März	19	35.168 <sub>113</sub> 35.055 <sub>03</sub>	69.03	34.246 <sub>108</sub> 34.138 <sub>86</sub>	24.36 44	8.744	74.04 97	49.480	57.04 34 56.70 60
111001 2	II	24.062	68.11	00	24.04	8.620 102 8.518 73	73.87 129	49.367 93	16 70
	21	24.007	66.90 146	34.052 33.995 21	23.86	8 446 14		40.000	55.26
	31	21872 -	65.44 172	22 07/1 -	22.86	8 470 =	70.97 190 69.07 215	0 31	EA T6
	3-	STORY TO BE	A STATE OF THE PARTY OF THE PAR	No. of the second	SPALET AND				-34
April	10	34.885 56	63.72 195	33.993 62	24.06	8.416	66.92 238	49.185 50	52.82 158
	20	34.941	01.77	34.055 108	24.49 67	8.466	04.54 255	49.235 94	51.24 180
	30	35.041 144	59.03 230	34.163 152	25.16	8.562 143	01.99 260	49.329 139	49.44 198
Mai	10	35.185 187	57.33 242	34.315 194	26.08 115	0.705 -00	59.30	49.468 181	47.46 213
	20	35-372 226	54.91 249	34.509 232	27.23 138	8.893 229	56.53 278	49.649 220	45.33 225
	30	35.598 259	52.42 250	34.741 265	28.61	9.122 265	53.75 274	49.869 253	43.08 230
Juni	9	35.857	40.02	35.006	30.18 157	0.387	51.01 262	50.122 281	40.78 231
	_19	36.142	47.46 235	35.290	31.90 184	9.681 315	48.39 245	50.403	38.47 226
	29	30.447 216	45.11 218	35.004 218	33.74		45.94 222	50.704	36.21
Juli	9	36.763 320	42.93 197	35.922 320	35.65 193	10.325 335	43.72 192	51.017 313	34.06 199
	TO	CONTRACTOR				TO 660		CONTRACTOR DESIGNATIONS	And the second second
	19 29	37.083 315 37.398 303	40.96 169	36.242	37.58 <sub>191</sub> 39.49 <sub>182</sub>	10.660 332 10.992 320	41.80 40.23 119	51.334 <sub>315</sub> 51.649 <sub>304</sub>	32.07 <sub>178</sub> 30.29 <sub>151</sub>
Aug.	8	37.70I <sub>284</sub>	39.27 <sub>138</sub> 37.89 <sub>103</sub>	36.557 302 36.859 284	41.31 170		39.04 77	51.953 287	1 2X 7X
	18	37.985 260	26 86	37.I43 <sub>261</sub>	43.01 154	11.615 278		52.240 264	27.57 89
	28	38.245 231	26.00	37.404 233	44.55 136	11.893 248	$37.93 \frac{34}{8}$	52.504 238	26.68
					STATE OF THE PARTY		- 3000000000000000000000000000000000000	ACCOUNT OF THE PARTY OF THE PAR	54
Sept.	7	38.476 199	35.91 8	37.637 203	45.91 114	12.141 214	38.01 50	52.742 207	26.14 21
	17	38.675 164	35.99 42	37.840 172	47.05 93	12.355 178	38.51 88	52.949 176	25.93 - 11 26.04
Okt.	27	38.839 130	36.41 73	38.012	47.98 70	12.533 141	39.39 121	53.125 142	06 46 42
OKt.	7	38.969 95	37.14 99	38.152 108 38.260	48.68 50	12.674 103	40.60 148	53.267 <sub>109</sub> 53.376 <sub>77</sub>	05.74
	17	39.064 61	38.13 119	77	49.10 29	F2.777 65	42.08 169	19	09
	26	39.125 29	39.32	38.337 48	49.47 11	12.842 31	43.77 <sub>180</sub>	53.453 -46	28.03 106
Nov.	5	39.154	40.65	38.385 20	49.58 -	12.873	45.57 184	53.499 17	29.09
	15	39.153 29	42.05	38.405 -6	49.53 18	12.871	47.41	53.510	30.24 119
	25	39.124 54	43.45 122	38.399 32	49.35 30	12.838 61	49.20 168	53.505 36	31.43 ri8
Dez.	5	39.070 76	44.78 122	38.367 55	49.05 39	12.777 85	50.88	53.469 61	32.61
	15	38.994 06	46.00 106	28 212	48.66	12.692 106.	52.37 125	53.408 81	33.72 100
	25	38.898 113	47.06 84	28 226	18 20	12.586	53.62 96	53·3 <sup>2</sup> 7 <sub>100</sub>	34.72 86
	35	38.785	47.90	38.141	47.69	12.461	54.58	53.227	35.58
1000	1000	27 N S 21 4 2 2	Cold Starter	Court Day	200		ela constante	(A) (1) (A)	-
Mittl.		36.301	57.36	35.465	30:37	9.821	60.40	50.561	46.08
sec δ,		I WAS TO SELECT MINISTER FOR	-0.29I		+0.156		-0.472		-0.187 
a,			+18.1		+18.1	CONTRACTOR OF STREET	+18.0		+17.8 0.46.
<i>b</i> ,	6	<u>-0.02</u>	- o.43	+0.01	— o.43	<b>—</b> 0.03	0.44	0.01	0.40

1) Die jährliche Parallaxe (o."298) ist bereits berücksichtigt.

Tor 64) α Trianguli			ianguli	63) € Cass	sioneiae	65) ξ Piscium		67) ψ Phoenicis	
Ta	E :	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	ΔR.	Dekl.
-									
194	17	1 <sup>h</sup> 50 <sup>m</sup>	+·29° 19′	1 <sup>h</sup> 50 <sup>m</sup>	+63° 24'	1 <sup>h</sup> 50 <sup>m</sup>	+2° 55′	Ib 51 m	-46° 33′
Jan.	0	2 520	21.43	22.70	49.01	47.981 105	31.46	2T 42O	60.92
Jan.	10	2.520	21.43 15	32.70	10 50	47.876 118	20 84	31.420 218	6T 6E 13,
	20	2.390 147	20.87 41	$32.35 \frac{35}{37}$ $31.98 \frac{35}{40}$	of the state of th	17 7 7 X	30.04 58	31.202 229	6T 88
	C - 1	2.243 2.086	03	21.58	49.91 35	47.632 126	29.74	30.973 234	67 60
Febr.	30	1.027	19.41	31.19 39	18 70	47.503 123	29.74 43	30.739 230	60.82
resi.	9	1.927 153	99		^34		J-	30.509 217	127
	19	1.774 137	18.42	30.81	47.36	47.380	28.99 20	30.292 196	59.55 172
März	I	1.037	17.31 118	30.48 28	45.60 209	47.268 91	28.79 4	30.096 166	57.83 213
Value -	II	1.526 78	16.13	30.20	43.51 233	47.177 63	28.75 14	29.930 128	55.70 250
	21	1.448 37	14.96	30.00 12	41.18	47.114 30	28.89 33	29.802 84	53.20 281
	31	1.411 9	13.85 98	29.88 4	38.72 250	47.084 = 10	29.22	29.718 33	50.39 306
April	IO	1.420	12.87	29.84	36.22	47.094	29.77 70	29.685	47-33 326
	20	T 480	T2.07	29.91 7	33.79 243	17.116	30.56 79	20 707	44.07 338
	30	1.592 162	TT.50 57	30.07 25	31.54	47.243 97	31.57	20 484	
Mai	10	1.754 209	11.21	30.32	29.55 167	47.385 184	32.81 146	20.025	37.25 344 32.82 343
	20	1.963 253	11.21	30.67 35	27.88	47.569 222	34.27 164	30.119 247	
			32	0 41			Control of the Contro	CONTRACTOR OF THE PARTY OF THE	333
	30	2.216 289	11.53 63	31.08 48	26.61 84	47.791 255	35.91 179	30.366 294	30.49 316
Juni	9	2.505	12.16		25.77 38	48.046 282	37.70 190	30.660 334	27.33 291
	19	2.023 337	13.08	32.09 53 32.66 57 59	25.39 10	48.328 301	39.60 197	30.994 265	24.42 260
T1:	29	3.100 350	14.29 146	32.00 59	25.49 57	48.629 313	41.57 199	31.359 288	21.82
Juli	9	3.510 352	15.75 166	33.25 59	26.06 102	48.942 316	43.56 195	31.747 399	19.61
8.12	19	3.862 246	17.41 184	33.84 59	27.08 145	49.258 313	45.51 186	32.146 401	17.84 129
	29	4.208 346	19.25 196	34.43 57	28.53 186	49.571 202	47.37	32.547 392	16.55 77
Aug.	8	4.543 315	21.21 203	35.00	30.39	49.013 280	49.10	32.939 374	15.78 22
9.50	18	4.858	23.24 206	35.53 g	32.60 253	50.158 263	50.65	33.313 3/4	15.56
	28	5.148 262	25.30 206	36.03 45	35.13 278	50.421 237	51.99 110	33.658 310	15.88 84
Sept.	7	5.410	27.36 200	36.48 <sub>39</sub>	The sold state of the	50.658 208	f2.00	60	16 70
wepu.	17	£ 640	00 06	36.87 39	37.91 <sub>299</sub> 40.90 <sub>313</sub>		F2 00	33.908 <sub>268</sub> 34.236 <sub>220</sub>	TO 06 13T
	27	5.837 163	27 28		44.03 313	50.800 177 51.043 146	54.55 25	21 156	19.83 213
Okt.	7	6 000	33.09 168	37.47 20		51.189 114	E4.00	24 606	1 OT OA
4.5	17	6.128	34.77	37.67	50.50 321		EE 02		24.38 259
	- 7. 9	19 95		20	The second second second	20	9	20	
27	26	6.223 61	36.28	$\frac{37.80}{37.87} \frac{7}{1}$	53.71 310	51.387 54	54.93 26	34.809 14	26.97 265
Nov.	5	6.284 28	37.02		56.81 292	51.441 26	54.67 41	34.823 = 33	29.02 262
	15	6.312 = 3	38.77 95	37.86 8	59.73 267	51.467.	54.26	34.790 78	32.24 247
Dom	25	6.309 34	39.72 73	37.78	62.40 236	51.466	53.75 59	34.712 119	34.71 223
Dez.	5	6.275 63	40.45 49	37.63 21	64.76 198	51.439 51	53.16 62	34-593 154	36.94 189
	15	6.212	40.94 26	37.42 26	66.74	51.388	52.54 64	34.439 182	38.83 149
	25	6.121	41.20	37.16	68.28 154	51.316 72	51.90 64	34.257 206	40.32
	35	6.007	41.20	37.16 36.84 36.84	69.33	51.224	51.26	34.051	41.35
λπ;++1	Ort	2.756	12.15	22.00	26.64	48 640	26.12	OT 267	AT 60
	tg δ	3.176	17.45	33.38	36.64 +1.998	48.518	36.13	31.361	41.69
No second and	a'	+3.4	+0.562 +17.8	2.234 +4.3	+17.8	+3.1	+0.051 +17.7	1.454 +2.4	-1.056 -+17.7
	b'	<del></del> 3.4 -+ σ.03	- 0.46	+0.12	- 0.46	0.00	- o.46	-0:06	0.47
L. Service	10/35	1,0.03	0.40		0.40	11 13 13 2		0.00	0.47

		66) β A	rietis	68) χ E	ridani	72) a	Hydri	71) v Ceti	
Ta	8	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
194	<b>1</b> 7	1 <sup>h</sup> 51 <sup>m</sup>	+20° 32′	ı <sup>h</sup> 53 <sup>m</sup>	-51° 51′	1 <sup>h</sup> 57 <sup>m</sup>	-61° 49′	1 <sup>h</sup> 57 <sup>m</sup>	-21° 19′
Jan.	0	41.778 115	60.46	E4 OET	99.58	6.72	59.29 6	8 20 TT6	74.20
van.	10	41.663 131	60 T2 33	54.051 <sub>254</sub> 53.797 <sub>267</sub>	700 00	6.73 37 6.36 39	£0.00	30.116 29.991 139	74.20 86 75.06 6
	20	41.532 140	50 65	53.530 271	TOO 44 =	5.97 39	F0.02 -	20 XE2	75 62
	30	41.392	50.04	53.259 266	100.06		50.28 33	20 706	75 86 -
Febr.	9	41.250	58.32 80	52.993 251	99.14 92	5.20 38	58.26 165	29.559 142	75.77 41
	***	THE RESERVE OF THE PARTY OF THE		5 127 7 1		39	105	The second secon	
März	19 İ	41.113 123	57.5 <sup>2</sup> 83 56.69 82	52.742 226	97.73 188	4.84 32	56.61 214	29.417 130	75.36 74 74.62
MINITE	II	40.990 102	55.87	52.516 194 52.322 152	95.85 <sub>231</sub> 93.54 <sub>268</sub>	4.52 28	54.47 257	20 T78	72 56
	21	10.818	EE T2 /3	52 170	95.34 268	4.24 <sub>23</sub> 4.01 <sub>16</sub>	51.90 <sup>237</sup> 48.95 <sub>325</sub>	20.006	TO TO
	31	10 781 34	54.47	F0 067	87.87 299	3.85 10		29.049 8	70.54 192
			49	-	325	200 10 400	349		
April	10	40.794 57	53.98 28	52.019 13	84.62	3·75 <sub>2</sub>	42.21 366	29.041 36	68.62
	20	40.851 57	53.70 5	52.032 76	1 01.19	3.73 7	30.33 274	29.077 82	00.47
Ma:	30	40.955 152	53.65 =	52.108	11.05 000	3.80	34.01	29.159 <sub>128</sub> 29.287 <sub>172</sub>	64.13 251
Mai	10	41.107 198	53.86 49	52.248 201	74.07 354	3.94 22	31.07 367	29.459 <sub>214</sub>	61.62 262
	20	41.305 237	54.35 76	52.449 259	70.53 343	4.16 29	27.40 351		59.00 266
15-17	30	41.542 272	55.11 102	52.708 312	67.10 323	4.45 37	23.89 327	29.673 250	56.34 266
Juni	9	41.814	56.13 126	53.020 257	1 03.01 206	4.02	20.112	29.923 281	53.68 250
	19	42.114	57.39	53.377 393	00.91 261	5.24	17.00 258	30.204 303	51.09 246
	29	42.433	58.86	53.770 418	58.30	5.71	13.00	30.507	48.63 227
Juli	9	42.764 333	60.51 178	54.188 433	56.10	6.21 53	12.96 161	30.826 319	46.36 200
	19	43.097 330	62.29 187	54.621	54.36 123		11.35 106	31.152 326	44.36
	29	43.427 318	64.16	55.058 437	53.13 68	6.74 7.28 54	10.29 49	31.478 216	42.66
Aug.	8	43.745	00.00	55.486 409	52.45 11	7.28 7.81 53	9.80 =	31.794 301	41.32 96
	18	44.044	07.95	55.895 280	52.34 -	0.32	9.91	32.095 280	40.36
	28	44.321 250	69.80 176	56.275 342	52.79 98	8.79 43	10.61 70	32.375 252	39.81 14
Sept.	7	44.571 219	71.56 164	56.617 295	53.77 149		11.86	32.627 222	39.67
	17	44.790 189	73.20	56.912 243	55.26 194	9.22 36 9.58 30	13.62	32.849 188	39.94 65
	27	44.979 156	74.70	57.155 186	57.20 231	9.88	15.84 258	33.037 153	40.59 99
Okt.	7	45.135 124	76.04 117	57.341	1 50.5T	IO.II	18.42	33.190	41.58
	17	45.259 92	77.21 100	57.468 68	62.08 274	10.25 7	21.26 299	33-307 83	42.85 150
	26	20 45 25T	ng ar	20 CH 526	64.82 281	10.32	24.25 301	33.390 48	44-35 164
Nov.	5	1 1 1T2	01	E7 5/6 -	67.63 274	10.31	27.26 293	33.438 16	45.99 171
	15	15 440	79.65 63	57.50I 97	70.37 257	10.22 16	30.19 293	33.454 15	47.70 170
	25	45.444 26		57.404 142	72.94 230	10.00	30.19 <sup>293</sup> 32.91 <sub>239</sub>	33.439 43	49.40 162
Dez.	5	45.418 53	80.40 29	57.262 183	75.24 194	9.84 28	35.30 199	33.396 69	51.02 148
	100	33	-	587 A V W W W	Carlotte Control	The state of the s	DOLO 20 2 1/2	22 227	52.50 127
	15	45.365 78	80.51 6	57.079 215	77.18 151 78.69 101	9.56	37.29 <sub>150</sub> 38.79 <sub>96</sub>	33·3 <sup>2</sup> 7 <sub>9<sup>2</sup></sub> . 33· <sup>2</sup> 35 <sub>113</sub>	53.77 102
	25 25	45.287 100	80.45 23	56.864 242 56.622	79.70	9.23 35 8.88 35	39.75	33.122	54.79
200	35	45.107	00.22	30.022	1 13.1-	27,000	STIPL MANAGEMENT	N. 100 (N. 100 Co.)	rent and a second
	L Ort	42.394	59.23	53.817	79-39	6.01	37.63	30.422	61.85
	, tg δ	1.068	+0.375	1.620	-1.274	2.118	-r.867	1.074	-o.391
	a'	+3.3	+17.7	+2.3	+17.6	+1.9	+17.5	+2.8 -0.02	+17.5
ь,	b'	+0.02	<b>— 0.47</b>	-o.o. <sub>7</sub>	<b>-</b> 0.48	-o.II	- 0.49	The state of the	- 0.49
					THE 2-45			D*	41

	700	70) 50 Ca	ggiopoisa	73) Y Andr	omodo o ma	74) a A	Aniotic	5 m	in moul!
Ta	rg		1					75) ß Tr	1
100		AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
194	47	1 <sup>h</sup> 58 <sup>m</sup>	+72° 9'	2 <sup>h</sup> 0 <sup>m</sup>	+42° 4′	2 <sup>h</sup> 4 <sup>m</sup>	+23°12'	2 <sup>h</sup> 6 <sup>m</sup>	+34°44′
Jan.		8	70 77	an - 176	42.89	8	48.18	8	21.08
Jan.	0	51.22	72.17 106	37.516 165	24	10.212		22.289	9
	10	50.67 59	73.23 48	37.351 186	43.13 =	10.097 132	47.96	22.152 158	21.17 20
	20	50.08.62	73.71 -	37.165 201	43.01 47	9.965 145	47.57 55	21.994 172	20.97 48
Daba	30	49.46 62	73.61 68	36.964 205	42.54 81	9.820 150	47.02 69	21.822 178	20.49 74
Febr.	9	48.84 59	72.93 122	36.759 198	41.73 110	9.670 146	46.33 78	21.644 173	19.75 96
	19	48.25 54	71.71 170	36.561 180	40.63	9.524 135	45.55 86	21.471 160	18.79 115
März	I	4/./1 45	70.0I	36.381	39.20 154	9.389 113	44.69 88	21.311	17.04
	II	47.26	67.90	36.230	37.74 162	9.276 84	43.81 85	21.175 101	10.37
	21	46.91	165.48	36.118 64	36.11	9.192 46	42.96 76	21.074 59	15.04 132
	31	46.68 9	62.85 272	36.054 10	34.44 162	9.146 3	42.20 63	21.015 10	13.72
April	10	46.59	60.13	36.044 49	32.82	9.143 44	41.57 45	21.005	12.48
	20	46.63 4	15/.43	36.093	31.33	9.187	41.12 24	21.048 43	11.38
	30	46.81 31	54.86 235	36.203 160	30.04 103	9.281	40.88 -	21.146	10.48 6
Mai	IO	47.I2	152.51	36.372	29.01 73	9.423 -90	40.90 30	21.298 204	9.83 36
	20	47.56 <sup>44</sup> <sub>54</sub>	50.46 167	36.597 276	28.28 73	9.612	41.20 56	21.502 250	9.47 5
	20			ALMERICAN PROPERTY AND ADDRESS OF THE PARTY	27.90	Contraction in a service and	AT 76	IS ASSESSED TO SECOND	9.42
Juni	30	48.10 65	48.79 <sub>124</sub> 47.55 <sub>77</sub>	36.873 318	$27.87 \frac{3}{24}$	9.844 <sub>269</sub> 10.113 <sub>297</sub>		21.752 291	0.60
Jun	9	48.75 72	16 =0 "	37.191 352	28.21	10.113 297	42.59 109 43.68	22.043 324	10.29
	19	49.47 77	46.50 =	37.543 378	28.91 70	10.410 320		22.367 347 22.714 362	11.20
Juli	29 9	50.24 81	46.72	37.921 393	20.91 104	10.730 333	45.00	22 077	
Wall Control	9	51.05 82	-	38.314 398	29.95 135	11.063 338	46.51 166	23.077 368	12.39 144
40.3	19	51.87 82	47.44 120	38.712 39.106 394	31.30 164	11.401 336	48.17 178	23.445 366	13.83 167
	29	52.69 80	48.64 165	39.106 383	32.94 ,88	11.1.51 006	149.95	23.811 356	15.50 184
Aug.	8	53.49 -6	50.29 206	39.489 363	34.82	12.003	51.80	24.167 339	17.34 108
	18	54.25	52.35 242	1 . 34.052	36.89	12.373	53.07 185	24.506 216	19.32
	28	54.96 64	54.78 276	40.189 307	39.12 233	12.662 263	55.52 179	24.822 288	21.39 211
Sept.	7	55.60 56.77	57.54 303	40.496	41.45 240	12.925 234	57.31 170	25.110 258	23.50 212
	17	56.17 49	100.57	40.768 236	43.85	13.159	59.0I	25.368	25.62 208
	27	56.66	63.81 339	41.004 198	40.25	13.363	00.00	25.593 190	27.70 202
Okt.	7	57.05 39	10/.20	41.202 158	48.63	13.535	02.04	25.783	29.72 193
	17	57-35 19	70.67 348	41.360	50.95 232	13.675 107	63.33	25.938 119	31.65 180
	26	57-54 9	74.15 342	41.478	53.17 207	12.782	64.46	24	33.45 164
Nov.	5	$57.63 \frac{9}{2}$	177.57	41.557	55.24 189	T2 8c0 "	65.43	26 - 12	35.09 148
	15	57.6I	80.85 306	41.595	57.13 167	TO 001 TO	66 00	26.188	36.57 128
	25	57.48 24	83.91 276		1 5 8 8 V	$13.904$ $13.917$ $\frac{13}{16}$	66.83	26 20T	37.85 106
Dez.	5	57.24 33	86.67 237	41.554 78	60.22	13.901 45	67.27 44	26.178 23	38.91 82
	15	-6 0-	89.04 193	41.476	67.06	T2.856	6	26 722	39.73 er.
	25	56.48 43	90.97 141	41.364	62 17	T2.784	67 6T	26.034 118	10.08
	35	56.48 43 56.48 50 55.98	92.38	41.220	62.64	13.687	67.51	25.916	40.26 28
7/F*1/3	5 100 6	100 Carlotte - 100	Carlo Carlo	-0 - 6		SCHOOLS.			
Mittl	105.111/236	51.72	58.53	38.136	35.22	10.769	45.96	22.864	15.40
sec δ,		3.265	+3.108	1.347	+0.903	1.088	+0.429	1.217	+0.693
a,		+5.1	+17.4	+3.7	+17.3	+3.4	+17.2	+3.6	+17.1
<i>b</i> ,	0	+0.18	— o.50	+0.05	- o.50	+0.02	— o.52	+0.04	— o.52

Table   Tabl			76) FF Coo	reionoise	78) u Fo	rnacie	80) 67 Ceti		85) <b>ξ²</b> Ceti =	
Total	Ta	g -		,	Charles N. Co.		33300.00			
Jan. o	1	122						TOTAL CANA		
10	194	17	2 <sup>n</sup> 10 <sup>m</sup>	16'+66°	2" 10"	$-30^{\circ} 57'$	2" 14"	-6° 39′	2 <sup>n</sup> 25 <sup>m</sup>	+8° 13′
10	Jan.	0	T7.T2 o	FT 40	34.347	02,40	TO.030	62.03	TO.827	22.57
Pebr. 9		1237 2.5	16.74	F2 11	34.201	02.47	19.827	62 820 19	TO 742	22.05
Tebr. 9		1000	16.31	F2 02 -	34.039	04.06 39	10.707	64 47	TO 622	21.54
19		ROLL OF THE REAL PROPERTY.	15.86 45	F2 88	33.867	04.25	10.570	64.04	TO 406	21.03
Maire   1	Febr.	16000000	15.41	52.20	33.693	04.02	19.438	65 22	TO 258 13	20.56
Mair   1		25.00		110		03	*SECTION 25 ST 120 CARLESTON			42
11	Mann	The second second	74.97 40	51.20	33.522 158	93.39 102			19.218	
April 10	Marz	70000	14.57 34	49.04	33.304 137	92.37 140			19.005 116	- 44
April 10		A Prince of the Paris	14.23 28	47.70 224	33-227 109	80.97		64 TO	18.909 92	
April 10		40 - 40	13.95 18	45.40 244	22 074	87 15	TQ 006 34	62 25 84	T8 8T6	TO 40
Mai   10		31	13.77 8	-3-			A 22		23	19.49 23
Mai   10	April	10	13.69 2	40.50	33.012	84.79 250	18.910 26	62.27	18.793 21	
Mai 10		20	13.71	137.90	33.025 62	02.20	18.936	100.90 TEA	18.814 66	1 20 TE
Mail 10		30	13.84	35.50 210	33.087 112	79.42	19.006	159.42	18.880	20.79 87
30	Mai	10	14.07	33.39 100	33.199 160	76.50		57.08 TOT	1 (9.001	I FOR
Juni 9 15.32 56 28.80 70 33.810 280 67.53 283 64.70 264 67.53 284		20	14.40 42	31.49 155	33.359 205	73.50 301	I TO 280	55.77 205	19.148	22.74 129
Juli 9 15.88 6 28.10 70 34.090 309 64.70 264 40.38 289 20.269 304 47.19 21 20.137 316 32.45 179 21 20.137 316 20.137 316 32.45 179 21.25 170 20.79 47 21.26 41 41.23 304 44.27 318 36.889 209 54.42 106 22.552 196 36.09 9 22.748 166		30		3 9 3 10 3 HE ROY 0.3	33.564		10.480	53.72		24.03
19	Juni	100 m (4.00)	15.32	1 28.80	33.810	67.53	19.715	51.57	19.581	25.50
Juli 9 16.49 63 27.87 $\frac{2}{23}$ 34.399 328 59.66 $\frac{2}{3}$ 20.209 304 47.19 212 20.443 316 30.64 181 19.68 19.68 19.68 28.20 20.26 $\frac{2}{53}$ 35.744 $\frac{2}{3}$ 35.744 $\frac{2}{3}$ 36.306 $\frac{2}{3}$ 37.551 18 19.22.28 20.79 $\frac{2}{3}$ 37.496 $\frac{2}{3}$ 37.41 $\frac{2}{3}$ 39.41 $\frac{2}{3}$ 39.41 $\frac{2}{3}$ 39.41 $\frac{2}{3}$ 39.41 $\frac{2}{3}$ 39.42 $\frac{2}{3}$ 39.43 $\frac{2}{3}$ 39.44 $\frac{2}{3}$ 39.44 $\frac{2}{3}$ 39.45 $\frac{2}{3}$ 39.47 $\frac{2}{3}$ 39.47 $\frac{2}{3}$ 39.47 $\frac{2}{3}$ 39.48 $\frac{2}{3}$ 39.60 $\frac{2}{3}$ 39.63 $\frac{1}{3}$ 39.6		SHOOD SEC.	15.88	28 TO 70	34.000	64.70	TO.080	49.38	10.847	27.12
19		A	16.49	27 87 =	34-399	62.06	20.200	47.19 219	20.137	28.84
19	Juli	200 B	17.12 66	28 70	34.727 220	59.69 237	20.573	45.07 200	20.443 316	30.64 181
Aug. 8   19.07 61   31.52 196   35.744 323   55.745 79   21.506 294   39.63 134   21.386 300   21.686 282   23.753 143   35.744 323   35.744 323   36.667 302   35.94 31   21.800 274   25.2074 252   21.906 261   38.96 125   22.074 252   23.66   22.074 252   23.66   22.074 252   23.66   23.896 261   38.96 125   22.074 252   23.66   23.896 261   38.96 125   22.074 252   23.66   23.896 261   38.96 125   23.66   23.896 261   38.96 125   23.66   23.896 261   23.291 261   23.				THE RESERVE OF THE PARTY OF THE	339	THE RESIDENCE OF THE PERSON OF	006	THE PARTY OF THE P	3.0	No. of the State of the
Aug. 8   19.07 61   31.52 196   35.744 323   55.745 79   21.506 294   39.63 134   21.386 300   21.686 282   23.753 143   35.744 323   35.744 323   36.667 302   35.94 31   21.800 274   25.2074 252   21.906 261   38.96 125   22.074 252   23.66   22.074 252   23.66   22.074 252   23.66   23.896 261   38.96 125   22.074 252   23.66   23.896 261   38.96 125   22.074 252   23.66   23.896 261   38.96 125   23.66   23.896 261   38.96 125   23.66   23.896 261   23.291 261   23.		V 75 10 10 10 10 10 10 10 10 10 10 10 10 10	17.78 65		35.000 342	57.05 167	20,000 313	43.07 183	20.759 316	32.45 178
18			18.43 64	29.95 157	1 35.400 226	55.90 125	21.199 307	41.24 161	21.0/5 311	34.23 171
Sept. 7 20.79 47 38.38 285 36.645 244 53.79 63 22.252 22.6 36.50 41 22.229 236 40.21 103 22.465 209 41.24 81 22.014 34.27 318 47.45 325 50.70 326 22.88 37.403 93 58.65 198 22.2748 166 36.00 9 22.465 209 42.05 59 22.854 151 25.070 326 25.75 18 60.24 287 37.555 18 60.24 28.255 14 40.38 100 22.285 14 40.38 100 22.285 14 40.38 100 22.285 14 40.38 100 22.285 14 40.38 100 22.285 14 40.38 100 22.285 14 40.38 100 22.285 14 40.38 100 22.285 14 40.38 100 22.285 14 40.28 100 22.285 14 40.38 100 22.285 14 40.38 100 22.285 14 40.38 100 22.285 14 40.38 100 22.285 12 40.285	Aug.	MATORIAL IS	19.07 61	31.52 106	35.744 323	17	21.500 294	39.03 134	21.300 300	
Sept. 7		4 ACCORD 17 ACC	19.08 58	33.40 230	30.007 302	1 6	22.074	27 21	21.068 282	1 -0 -6 TJ
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		20	53		Marie Committee of the Control of th	53.03 16		1000		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Sept.	7	20.79 47	38.38 285	36.645 244	53.79 63	22.326 226	36.50	22.229 236	104
Okt. 7 21.67 34 44.27 318 37.098 172 55.48 143 56.91 174 22.01 27 177 22.28 20 50.70 326 37.403 93 56.91 174 58.65 198 22.48 11 53.96 320 57.16 308 37.551 18 60.24 287 37.552 51 60.24 287 22.58 13 22.45 20 65.70 225 37.501 $\frac{1}{8}$ 60.24 287 37.501 $\frac{1}{8}$ 64.93 214 67.07 201 69.08 180 23.271 40 41.41 105 23.316 $\frac{1}{2}$ 23.216 $\frac{1}{2}$ 42.43 43 43 69.78 136 37.180 77.89 20.272 55.80 20.218 24.78 $\frac{1}{2}$ 42.00 47 41.53 50 41.03 $\frac{1}{2}$ 42.00 47 41.53 50 41.03 $\frac{1}{2}$ 42.00 47 41.53 50 $\frac{1}{2}$ 42.478 $\frac{1}{2}$ 42.478		17	21.20	41.23	36.889 200	54.42 106	22.552	36.09	22.405	41.24 81
Okt. 7   22.01 37   47.45 325   50.70 326   37.496 325   37.496 55   60.63 212   22.59 4   22.63 5   60.24 287   22.58 13   65.70 225   37.552 51   69.08 180   23.271   40   41.41 105   22.25 28   21.97 34   37.180   73.60		27	21.67	44.21 000	27 008	55.48	22.748	36.00 =	22.074	54
17	Okt.	7	22.01	47.45 325	27 270	56.91	22.914 135		22.854	1 40
26*) 22.48 II		17	22.28 20	50.70 326	9.3	58.65 198	23.049 105	36.67	23.005	43.02 18
Nov. 5   $22.59 - 4 = 22.63 - 5 = 100 = 1$		26*)	25 22.48		27 106		23.154	37.37 0-	23.126	43.20
Dez. 5 22.25 28 21.97 34 21.63 71.14 77.89 20.272 55.80 20.218 24.78	Nov.	5057967	22.50	57.16	37.551	62.75 8		38.24	23.218 62	43.20
Dez. $\begin{array}{c ccccccccccccccccccccccccccccccccccc$			22.63	60.24	37.569	64.93	22 270 TJ	39.24 108	23.280	12.06
Dez. 5 22.45 20 65.70 225 37.501 81 69.08 180 23.271 40 41.41 105 23.310 25 42.43 43  15 22.25 28 21.97 34 69.78 136 71.14 77.89 20.272 55.80 20.218 24.78			22.58	63.11	05 550	67.07	22 285	40.38 100	22 212	1 40 70
15 22.25 28 21.97 34 21.63 47.14 77.89 20.272 55.80 23.291 53 42.00 47 41.53 50 23.21 65 23.231	Dez.		22.45	65.70 259	OH FOT	69.08	22 271	41.41	22 216 -	1 12 12
25 21.97 34 69.78 136 37.311 131 72.41 119 23.100 88 43.45 87 44.32 7 23.161 77 41.03 50 23.078 Mittl. Ort 17.56 38.67 34.441 77.89 20.272 55.80 20.218 24.78			CATCON DECK TO THE	100 CO CO CO CO CO CO CO CO CO CO CO CO CO		AND DESCRIPTION OF THE PARTY OF	STATE OF THE PARTY			12.00
35 21.63 34 71.14 33 37.180 37.360 23.078 44.32 23.161 41.03 Mittl. Ort 17.56 38.67 34.441 77.89 20.272 55.80 20.218 24.78			22.25 28	07.95 183	37.420 109	70.00	22 166	42 45 99	22.228	AT 52 4/
Mittl. Ort 17.56 38.67 34.441 77.89 20.272 55.80 20.218 24.78			21.97 34	09.78 136	37.311 131	72 60				
		35	21.03	11.14	37.200	73.00			13 15 15 15 15 15 15 15 15 15 15 15 15 15	S. 180
	Mittl	. Ort	17.56	38.67	34.441	77.89	20.272	55.80	A THE RESERVE OF THE PARTY OF T	
200 0, 08 0   2.400			2.486	+2.276	1.166	<b>-0.600</b>	1.007	-0.117		
$a, a'$ $\begin{vmatrix} +4.7 & +16.9 & \end{vmatrix} +2.6 & +16.9 & \end{vmatrix} +3.0 & +16.7 & \end{vmatrix} +3.2 & +16.1$	a,	a'	C17,740905 II 30,75805		#2.6	PROPERTY AND PERSONS	THE RESERVE OF THE PARTY OF THE			
b, b' $+0.13$ $-0.54$ $-0.03$ $-0.54$ $-0.01$ $-0.55$ $+0.01$ $-0.59$	ь.	b'	+0.13	· 0.54	l —o.o3	- o.54	1-0.01	- o.55	+0.01	- 0.59

<sup>\*)</sup> Bei Stern 85) lies Okt. 27.

		90) µ	Hvdri	87) 36 H. C	assiopeiae	89) v A	rietis	91) δ	Ceti
Ta	g	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
19	47	2 <sup>h</sup> 32 <sup>m</sup>	-79° 19′	2 <sup>h</sup> 32 <sup>m</sup>	+72° 35′	2 <sup>h</sup> 35"	+21°43′	2 <sup>h</sup> 36 <sup>m</sup>	+0° 5′
Jan.	0	49.46 111	108.06 %	56.60	31.58	47.652	62.32	45.486	59.04 72
	10	48.35 118	108.88 82	56.09 58	33.07	47.553 123	62.19 27	45.400 92	58.32 62
	20	47.17	109.10 -	55.51 62	34.01 36	47.430	61.92	45.281 113	57.70 51
	30	45.97	108.70	54.89 64	34.37 =	47.288	61.53 51	45.152 140	57.19 40
Febr.	9	44.78 115	107.71 155	54.25 64	34.16	47.135 156	61.02 61	45.012	56.79 25
736	19	43.63 108	106.16	53.61	33.39 130	46.979 149	60.41 67	44.870 137	56.54 10
März	I	42.55 98	104.09 252	5.3.02	32.09 176	46.830	59.74 69	44.733	56.44 7
2 5 7 7	11	41.57 86	101.57	52.49	30.33	46.696	59.05 60	44.609 101	56.51 26
-1.760	21	40.71 72	98.65 325	52.05 22	28.20	46.588 74	58.36 62	44.508	56.77 46
	31	39-99 55	95.40 <sub>351</sub>	51.73 20	25.78 260	46.514 34	57.74 51	44.437 34	57.23 67
April	10	39.44 37	91.89 369	51.53 6	23.18 266	46.480	57.23 37	44.403 7	57.90 89
	20	39.07 10	378	51.47 -8	20.52 263	46.492 60	56.86 18	44.410	58.79 111
13.W	30	38.88 -	84.42 380	51.55 23	17.89 249	46.552 110	56.68 -	44.461	59.90 132
Mai	10	38.89 20	80.62	51.78 36	15.40 226	46.662	56.71	44.558	61.22
	20	39.09 39	76.88 3/4	52.14 48	13.14 196	46.820 203	56.98 52	44.699 183	62.74 168
	30	39.48 57	73.28 336	52.62 59	11.18	47.023 243	57.50 75	44.882	64.42 182
Juni	9	40.05 74	00.02	55.21 68	9.00	47.266	58.25 08	45.103 252	66.24
	19	40.79 80	268	53.89 76	8.43 72	47.542	59.23 119	45.350 278	08.17
7.0	29	41.68	04.10	54.05 8,	7.71 24	1 47.844	60.42	45.634 297	70.14 106
Juli	9	42.68	61.95 172	55.46 84	7.47 =	48.104 331	61.78 136	45.931 308	72.10 192
	19	43.79 117	60:23	56.30 85	7.71 71	48.495 334	63.29 160	46.239 312	74.02 182
	29	44.96	59.00 57	57.15 8	8.42	48.829	64.89 -66	40.551	75.84 166
Aug.	8	40.15	58.49	58.00	9.58 160	49.159 210	66.55 -68	40.059 208	77.50 146
	18	47.34	58.52 64	58.83	11.18 200	1 49.470	68.23 165	47.157 284	78.96
	28	48.49 ro6	59.16	59.02 74	13.18 236	49.780 282	69.88 159	47.441 264	80.19 97
Sept.	7	49.55 95	60.38 177	60.36 68	15.54 267	50.062	71.47 151	47.705 240	81.16
	17	50.50 80	02.15	61.04 60	18.21	50.319	72.98	47.945	81.86
01-1	27	51.30 62	04.40	61.64 51	21.15 314	50.550 202	74.37 125	48.160 187	82.27
Okt.	7	51.92 43	67.05 295	02.15	24.29 329	50.752 172	75.62	48.347 158	82.42 11
	17	52.35 21	70.00 313	62.57 42	27.58 338	50.924	76.74 96	48.505 128	82.31 33
	27	52.56 I	73.13 320	62.89 22	30.96 338	51.065	77.70 82	48.633 99	81.98 51
Nov.	5	52.55 22	70.33	30 63.11 10	34·34 33 <sup>2</sup> 37.66 318	3151.176 79	78.52 67	3148.732 69	81.47 66
T.	15	52.33 44	19.40 201	03.21	37.66 318	51.255 47	79.19 53	48.801 40	80.81 80.81
Dez.	25	51.89 63	262	0.3.20	40.04 206	51.302 15	79.72 39	48.841 9	80.06 81
Dez.	5	51.26 81	85.03 223	63.06 24	43.80 264	51.317 =	80.11 25	48.850 = 19	79.25 83
Tall Co	15	50.45 95	87.26	62.82	46.44 227	51.299 49	80.36	48.831 47	78.42 80
12.3	25	49.50 103	88.99 118	02.47	48.71 180	51.250 79	80.46 -	48.784 74	77.62 75
-	35	48.47	90.17	62.02	50.51	51.171	80.42	48.710	76.87
	. Ort	44.70	87.06	56.59	18.27	48.037	60.22	45.759	63.52
	, tg δ	5.406	-5.313	3.342	+3.189	1.077	0.399	1.000	+0.002
	a'	-1.3	+15.8	+5.7	+15.7	+3.4	+15.6	+3.1	+15.5
0,	b'	-0.28	- o.62	+0.17	- o.62	+0.02	- o.63	0.00	- o.63

100								113 1 15	
Ta	1.0	93) के 🗆	Persei	97) π	Ceti	98) µ	Ceti	100) 41	Arietis
		AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
192	47	2 <sup>h</sup> 40 <sup>m</sup>	+49° o'	2 <sup>h</sup> 41 <sup>m</sup>	-14° 4'	2 <sup>h</sup> 42 <sup>m</sup>	+9° 53′	2 <sup>h</sup> 46 <sup>m</sup>	+27° 2'
Jan.	0	33.637 170	29.93 80	35.782	64.40 102	4.063 89	28.00	51.097 100	39.64 8
BESTEWN N	10	33.467	30.73	35.680 123	65.42 78	3.974 111	27 52 47	50.997 127	$39.04 \frac{8}{39.72} = \frac{39.04}{10}$
	20	33.262 231	31.14 1	35.557 140	66.20	3.863	27.06	50.870 149	39.62 28
MPS 5	30	33.031	31.15 = 39	35.417	66.73 53	3.733 141	26.59 47	50.721	20.24
Febr.	9	32.784 250	30.76 76	35.267	66.99 =	3.592 145	26.13 42	50.558 168	38.89 60
	TO			11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	66.98		304 12 36	The state of the s	S 2 3 1 1 1 1 1 1 1
März	19	32.534 <sub>238</sub> 32.296 <sub>213</sub>	30.00	35.114 <sub>149</sub> 34.965 <sub>134</sub>	66.67	3.447 <sub>141</sub> 3.306 <sub>127</sub>	25.71 36	50.390 <sub>163</sub> 50.227 <sub>147</sub>	38.29 73
1110112	II	32.083 213	28.90 <sub>139</sub> <sub>27.51 <sub>160</sub></sub>	34.831	66.08 59	2 770	25.35 <sub>28</sub> <sub>25.07</sub> <sub>17</sub>	1 50 080 TT	37.56 81
	21	31.907	25 01	24 778 113	65 21 7	3.074	24.00	10 057 123	36.75 85
	31	2T 7X0	25.91 175 24.16 181	21 625	64.06	2 000 /3	24 87 -	10 868	35.90 84 35.06 78
17.5 P	3-	31.700 70		<del>1</del> /	144		24.07 13	47	/5
April	10	31.710 5	22.35 179	34.588 6	62.64 167	2.962	25.00 32	49.821	34.28 66
	20	31.705 63	120.50	$34.582 \frac{3}{39}$	00.97	2.967	25.32	49.821 51	33.62
	30	31.768	18.88	34.621 84	59.07 209	3.018 98	25.84 73	49.872 103	33.11
Mai	10	31.900 197	17.37 128	34.705 130	56.98 225	3.116	26.57 94	49.975 153	32.80 8
	20	32.097 258	16.09 98	34.835 173	54.73 237	3.259 186	27.51 115	50.128 200	32.72 =
	30	32.355 313	15.11 66	35.008 213	52.36 244	3.445 224	28.66	50.328 243	32.89 42
Juni	9	32.668 313	14.45 31	35.221	49.92	3.669 257	29.99 140	50.571	33.31 67
	19	33.026 335	14.14 5	35.467 274	47.48	3.926 283	31.48 161	50.850 307	33.98 90
3 5000	29	33.421	14.19	1 35.74I	45.09 228	4.209 303	33.09 -60	51.15/ 000	34.88
Juli	9	33.841 436	14.61 76	36.036 307	42.81 211	4.512 313	34.78 173	51.484 341	35.99 130
	19	34.277 <sub>441</sub>	15.37 110		40.70 188	4.825 317	36.51 172	51.825 345	37.29 145
	29	34.718 441	16.47	36.343 36.656	38.82	5.142 315	38.23 165	52.170 342	38.74
Aug.	8	25 7 7 6 430	17.87 167	36.656 36.968 304	37.23 127	5.457 305	39.88 156		40.29 163
	18	25 -82 420	19.54 190	27 272	25.00	1./04	41.44	52.846	41.92 165
	28	35.5°2 406 35.988 381	21.44 209	37.561 270	35.04 53	6.053 272	42.86	53.164 299	43.57 165
Sept.		300	and the second	the state of the s	33		The second of	THE RESERVE THE PARTY OF THE PA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Dept.	7	36.369 350	23.53 224	37.831 246	34.51 15	6.325 249	44.11 106 45.17 84	53.463 <sub>275</sub> 53.738 <sub>249</sub>	45.22 46.84 154
	17 27	36.719 350	25.77 235	38.077 219 38.296	34.36 = 34.58 = 38	6.574 224 6.798 196	46 OT	53.987 221	48.38 146
Okt.	7	37.034 277	28.12 242	20 100	1 25 76	6.994 169	16.65	E4 20X	49.84 135
BEET.	17	37.311 <sub>236</sub> 37.547 <sub>192</sub>	30.54 <sub>244</sub> 32.98 <sub>243</sub>	38.647 160	35.10 88	7.163	47.00	54.398 160	51.19 135
	137.18		ALC: THE RESERVE OF THE PARTY O	The first of the second	The second secon	MALE RAPES			7-200 (67.00 %
NT.	27	37.739 148	35.41 236	38.776 96	37.19 134	2 7·303 110	47.33 7	54.558 128	52.43 111
Nov.	5	37.887	37.77 226	38.872 65	38.53	<sup>2</sup> 7.413 80	47.40 7	<sup>3</sup> 54.686 94	53.54 98
	15	37.988 52	40.03 211	38.937 34	40.00 153	7.493 <sub>50</sub>	47.33 20	54.780 61 54.841 26	54.52 84
Dez.	25	38.040	42.14 191	38.971 2	41.33 152	1.543 20	47.13 29 46.84 25	. 00.	55.36 69 56.05 54
Dez.	5	38.043 = 47	44.05 166	38.973 -8	43.05 145	7.563 -	40.04 35	54.807	JT.
	15	37.996 95	45.71 136	38.945 58	44.50 131	7.552 41	46.49 41	54.857	56.59 37
	25	37.901 93	47.07 103	38.887 84	45.81	7.511 69	46.08	54.812	56.96
130	35	37.761	48.10	38.803	46.96	7.442	45.63	54.735	57.16
Mi++1	. Ort	22.09.	00.70	25.006	55.82	4.368	29.37	51.437	35.94
sec 8,		33.984 1.524	20.72 +1.151	35.906 / 1.031	-0.25I	The second secon	+0.174	The second second	+0.510
a,		+4.I	+15.3	A CONTRACT OF THE PARTY OF THE	+15.3	S. CONTROL OF THE PARTY OF THE	+15.2		+15.0
b,		+0.06	- 0.64		- o.65	+0.01	- o.65		- o.67
TO VENER	75 TO 10	STEEL STEEL	ACCES TO	1-1949 1565	Addition to	100000000000000000000000000000000000000		The State of the se	The Contract of the Contract o

NOTE : NO									
Ta	ag	101) β F		102) τ2		103) τ	Persei	104) η I	Eridani
		AR.	Dekl.	AR.	Dekl.	AR.	Dekl,	AR.	Dekl.
19	47	2 <sup>h</sup> 46 <sup>m</sup>	-32° 37′	2 <sup>h</sup> 48 <sup>m</sup>	-21° 12′	2 <sup>h</sup> 50 <sup>m</sup>	+52° 32′	2 <sup>h</sup> 53 <sup>m</sup>	-9° 6′
Jan.	0	52.491 140	52.44 130	37.991 111	87.80	28.845 183	59.47	50.055	35.43
	10	52.351 -64	53.74 89	37.880	88.98 87	28.002	60.48 61	49.964	36.40
	20	52.187	54.63 48	37.746	80.85	28.430	61.09 18	1 40 XEO	37.10
	30	52.005	55.11 4	37.594 162	90.40 55	28.185	61.27	49.716	27 78 39
Febr.	-9	51.814	55.15 38	37.432 166	90.62 =	27.912 278	61.03 65	49.569	38.14 36
	19	51.620 187	54.77 81	37.266 162	90.49 48	27.634 268	60.38	49.418	38.26
März	I	51.433	53.96	37.104	90.01 81	27.366 244	59.35 136	49.269 138	38.14 37
	II	51.261	52.74 160	36.955	80.20	27.122 206	57.99 162	49.131	37.77 62
	21	51.113 116	51.14	36.828 08	88.06	26.916	56.37	49.014 90	37.15 87
	31	50.997 77	49.18 227	36.730 <sub>61</sub>	175	26.762 93	54.57 190	48.924 54	36.28
April	10	50.920 32	46.91 <sub>255</sub>	36.669 20	84.85 201	26.669 25	52.67 192	48.870 14	35.15 136
	20	50.888 = 17	44.30	36.649 =	82.84	$26.644 \frac{23}{48}$	50.75	48.856 =	33.79 160
M-:	30	50.905 68	41.59 295	36.675 73	80.60	26.602	48.90	48.885	32.19 180
Mai	10	50.973 118	38.04 205	36.748 120	70.10 20	26.814 193	47.19	48.960	30.39
	20	51.091 167	35.59 311	36.868 165	75.58 267	27.007 259	45.70 121	49.081 164	28.42
	30	51.258 211	32.48 308	37.033 206	72.91 271	27.266 319	44.49 90	49.245 203	26.31 221
Juni	9	51.469	29.40	37-239 242	70.20 268	27.585 260	43.59 56	49.448	24.IO
	19	51.721 285	20.41 281	37.481	67.52 200	27.954	43.03 18	49.686 266	21.84
	29	52.000	23.60 257	37.753 200	04.94	28.305	42.85 =	49.952 288	19.00
Juli	9	52.316 329	21.03 227	38.048 311	02.51 219	20.005 460	43.04 55	50.240 301	17.42 205
	19	52.645 339	18.76	38-359 318	60.32	29.265 469	43.59 91	50.541 309	15.37 187
	29	1 52.904	10.07	30,077	58.41	1 29.734	44.50	50.850 309	13.50
Aug.	8	53.324 334	15.40	30.990 211	50.84	30.201	45.74	51.159 303	11.87
	18	33.050 210	14.40	39.307 200	55.65 78	30.059	47.28	51.462	10.51 104
	28	53.977. 300	13.89	39.606 280	54.87	31.098 415	49.08 203	51.752 273	9.47 69
Sept.	7	54.277 274	13.89	39.886 257	54.53 10	31.513 383	51.11 221	52.025 251	8.78
	17	54.551 242	14.38	40.143	54.63	31.890	53.32 226	52.276	8.43
01-4	27	54.794 209	15.35	40.372	55.14	32.244 200	55.68	52.503 200	8.43 33
Okt.	7	55.003 172	10.74	40.571 -68	56.04 124	32.553 a6r	58.15	52.703	8.76 64
	17	55.175 133	10.50 205	40.739 134	57-28 152	32.818 220	254	52.875 142	9.40 88
'NT.	27	3.55.308 95	20.55 225	40.873 101	58.80	33.038 171	63.22 251	53.017 111	10.28
Nov.	5	33.403 56	22.80	40.974 67	100.53	4 33.209 120	05.73 242	5 53.128 81	11.37 123
	Í5	55.459 16	22.80 235 25.15 236	41.041	02.30	33.329 66	00.10	53.209 50	12.00
Dez.	25	55.475 21	27.51 227	41.074 0	04.20 ,86	33.395 12	70.46 212	53.259 18	13.92
Dez.	5	55·454 <sub>58</sub>	29.78 209	41.074 33	66.14 175	33.407 - 44	72.58 188	53.277	15.25 129
	15	55.396 gr	31.87 184	41.041 64	67.89	33-363 97	74.46	53.263	16.54 121
	25	55.305 122	33.71	40.977	09.46	33.266	76.04 124	53.220	17.75 107
	35	55.183	35-22	40.884	70.80	33.117	77.28	53.148	18.82
Mittl		52.311	39.17	37.989	77-52	29.098	49.63	50.166	28.73
sec δ,		ACCUMENTS FOR COMPANY WITH THE PARTY.	<b>—0.640</b>	1.073	-o.388	1.644	+1.305	1.013	0.160
	a',	SECOND PROPERTY AND ADDRESS OF THE PARTY AND A	+15.0	+2.7	+14.9	+4.3	+14.7	+2.9	+14.5
<i>b</i> ,	6	l—o.o3	— o.67	-0.02	- o.67	+0.06	— o.68	-o.o1	— o.69

Та	o	106) 9 Er	idani pr	105) 47 H	Cephei	107) α	Ceti	108) γ ]	Persei
		AR.	Dekl	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
194	47	2 <sup>h</sup> 56 <sup>m</sup>	-40° 30′	2 <sup>h</sup> 58 <sup>m</sup>	+79° 12′	2 <sup>h</sup> 59 <sup>m</sup>	+3° 52′	3 <sup>h</sup> 0 <sup>m</sup>	+53° 17′
Jan.	0	15.475 167	72.66	58.28 80	57.06 198	30.155 81	56.02 64	56.380	71.81
	10 .	15.308 195	74.10 98	57.48 92	59.04 143	30.074	55.38 64	56.203 221	72 02
	20	15.113	75.08	56.56 102	60.47 86	29.968	54 80	55.982 255	73.66 73
	30	14.899 336	75.60	55.54 107	61.33 25	29.841	54.20	55.727 278	73.98 12
Febr.	9	14.673 230	$75.63 \frac{3}{47}$	54.47 108	$61.58 \frac{25}{36}$	29.700 149	53.87 42	55.449 286	73.86
	1155.3		7/		15000000000		52 10 22 1		
März	19	14.443 223	75.16 93	53.39 103	61.22	29.551 147	53.56 20	55.163 279	73.32 92
MISTA	I	14.220 208	74.23 138	52.36 95 51.41 82	60.27 95 58.80 147	29.404 <sub>136</sub> 29.268 <sub>116</sub>	53.36 7	54.884 <sub>258</sub>	72.40 127 71.13 155
	21	14.012 182	72.85 180	בס בס	56.87 193	00 770	53.29 8	54.626 220	60 40 -33
	1500000	13.830 148 13.682 107	71.05 218	50.59 66 49.93 46	56.87 231 54.56 258	29.152 89	53.63	54.406 <sub>170</sub> 54.236 <sub>110</sub>	67.83 188
	31	13.002 107	68.87 252	49.93 46	THE RESERVE AND ADDRESS OF THE PARTY.	29.003 54	33.03 44	Committee of the same	THE RESERVE OF THE PARTY OF THE
April	10	13.575 59	66.35 281	49.47 25	51.98 274	29.009 13	54.07 64	54.126 <sub>41</sub>	65.95 193
	20	13.516 7	63.54 304	49.22	49.24 280	$28.996 \frac{3}{31}$	54-71 85	$54.085 \frac{71}{32}$	64.02 ,00
	30	13.509 48	00.50 321	49.18 -	46.44	29.027	55.56	54.117 107	62.14
Mai	IO	13.557 103	57.29 221	49.37	143.70	29.104	56.61 125	54.224 180	1 00.39
	20	13.660	53.98 334	49.78 <sub>61</sub>	41.11 235	29.226 166	57.86 143	54.404 249	58.82
	30	13.817 207	50.64 329	50.39 80	38.76 204	29.392 205	59.29 158	54.653 311	57.51 <sub>101</sub>
Juni	9	14.024	1 47.35	51.19 95	26 40	29.597 240	60.87	54.964 364	56.50 68
1000	19	14.276 290	44.18 297	52.14 109	35.06	29.837 267	62.58 178	55.328 408	00
	29	1 14.500	41.21 268	53.23 120	1 33.82	30.104 289	1 04.30 -0-	55.736 441	$\begin{vmatrix} 55.62 & 32 \\ 55.50 & \frac{3}{5} \end{vmatrix}$
Juli	9	14.887 344	38.53 234	54.43 127	33.05 77	30.393 304	66.17 181	56.177 463	55.55 4ir
	1313	344	THE RESERVE THE PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO					THE RESERVE AND ADDRESS OF THE PARTY OF THE	ST 3, 3 72
	19	15.231 358	36.19 192	55.70 131	32.75 19	30.697 310	67.98 174	56.640 475	55.96 76
	29	15.509 363	34.27 145	57.01	32.94 68	31.007 309	69.72 162	57.115 476	56.72
Aug.	8	15.952 359	32.82 94	58.34 133	33.62	31.316 304	71.34 147	57.591 469	57.82
	18 28	16.311 347	31.88 40	59.67 129	34.76 158	31.620 292	72.81	58.060 453	59.22 168
	20	16.658 327	$31.48 \frac{1}{15}$	60.96	36.34 201	31.912 276	74.00	58.513 430	10 May 10
Sept.	7	16.985 300	31.63 69	62.18 115	38.35 238	32.188 256	75.13 80	58.943 401	62.82
	17	1 11.205 260	32.32 120	63.33 104	40.73 272	32.444	75.93 55	59.344 267	64.94 228
	27	17.554	33.52 166	64.37 92	43.45	32.676 208	76.48 30	59.711	67.22 240
Okt.	7	17.784	35.18	65.29 77	40.45	32.884 180	76.78 6	00.040	69.62 248
	17	17.975 147	37.23 235	66.06 62	49.68 323	33.064	76.84 =	60.327 240	72.10 252
	27	18.122	39.58 257	66.68	53.07 349	33.217 123	76.69	60.567 192	74.62 250
Nov.	5*)	5 18.225	42.15 267	67.13	56.56 349	22 240	76.35 34	60.759	77.12 245
	15	5 18.225 57 18.282 13	44.82 267	67.39 7	60.06 350	33.434 64	75.87 58	60.898 85	79.57 234
april 1	25		47.49 256		103.44	33.498 32	75.29 66	60.983 28	81.91 218
Dez.	5	18.264 74	50.05 235	67.33 32	66.78 329	33.530 1	74.63 68	61.011 =	84.09 195
NO IN	15	18.190 111	52.40 206	67.0ì	69.81 270	33.531 <sub>30</sub>	73.95 69	60.982 87	86.04 168
	25	18.079	54.46 169	66 50	72.51 228	33.501 <sub>61</sub>	73.26 67	60.895	87.72 136
	35	17.932	56.15	65.81	74.79	33.440	72.59	60.754	89.08
Mittl	L Ort	15.046	58.16	57.17	43.64	30.341	58.81	56.552	61.95
	, $tg \delta$	1.315	-o.855	5-343	+5.248	1.002	+0.068	1.673	+1.342
a,	a'	+2.3	+14.4	+8.0	+14.2	+3.1	+14.2	+4.3	+14.1
Ъ,	b'.	-0.04	— o.7o	+0.25	— o.70	0.00	- o.71	<del>+</del> 0.06	— o.7I

Bei Stern 105), 107) und 108) lies Nov. 6.

Ta	~	109) p	Fersei	110) µ H	orologii	111) β	Persei	114) δ Α	Arietis
1 a	£	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
19:	47	3 <sup>h</sup> 1 <sup>m</sup>	+38°33′	3 <sup>h</sup> 2 <sup>m</sup>	-59° 56′	3 <sup>h</sup> 4 <sup>m</sup>	+40° 45′	3 <sup>h</sup> 8 <sup>m</sup>	+19°31′
Jan.	0	46.001	17.59 58	23.066	50.86	42.418	18.02 68	35.373	41.23
	10	45.887	18.17	22.7450	52.36 95	42.301	18.70 39	35.294	41.12
	20	45.739 +76	18.48 <sub>T</sub>	22.30/ 284	53.31 38	42.147 182	19.09 8	35.185	40.92 28
	30	45.563	18.49 -	22.003	53.69 =	41.964	19.17 22	35.052	40.64 37
Febr.	9	45.369 203	18.22	21.005 398	53.49 76	41.761 212	18.95 52	34.902 159	40.27 44
	19	45.166 200	17.67 80	21.207 386	52.73 130	41.549 209	18.43 79	34.743 159	39.83
März	1	44.066	16.87	20.821	51.43	41.340	17.04	34.584	39.34
0 20 1	II	44.782	15.87	20.459	49.62	41.146 166	16.62	34.435 129	38.84
	21	44.024	14.71	20.135	47.35 268	40.980	15.42	34.306	38.35
	31	44.504 74	13.45	19.800 216	44.67 302	40.852 81	14.10	34.206 62	37.90 36
April	10	44.430 21	12.16	19.644 149	41.65 331	40.771 27	12.73	34.144 20	37.54 23
	20	44.409 36	10.91	19.495 75	30.34 252	40.744 32	11.39 127	. 34.124 28	37.31 8
Ma:	30	44.445 95	9.75 100	19.420 i	34.82 365	40.776 92	10.12	34.152 77	37.23 10
Mai	10	44.540	8.75 79	19.421 80	31.17 372	40.868	9.00 <sub>92</sub>	34.229. 125	37.33 31
	20	44.691 206	7.96	19.501 157	27.45 369	41.020 207	67	34.354 171	37.64 <sub>51</sub>
5000	30	44.897 255	7.41 28	19.658 231	23.76 357	41.227 257	7.41 41	34-525 214	38.15
Juni	9	45.152 297	7.13 0	19.889	, 20.19 338	41.484 202	7.00	34.739 250	38.88
	19	45.449 332	7.13 30	20.189	10.01 311	41.786	$6.89 \frac{1}{18}$	34.989 280	39.80 110
T 1.	29	45.781 356	7.43 58	20.540	13.70 274	42.123 363	7.07 47	35.269 303	40.90 125
Juli	9	46.137 374	8.01 84	20.960 451	10.96 274	42.486 363	7.54 75	35.572 319	42.15 136
	19	46.511 383	8.85 109	21.411 479	8.65 181	42.868 391	8.29 102	35.891 36.218 327	43.51
	29	40.094	9.94 721	21.090	6.84	43.259 393	0.31	30.210	44.95
Aug.	8	4/.2// 375	11.25 148	22.304	5.57 68	43.052 386	10.56	36.545 222	46.44 148
	18	1 41.054	12.73 .60	22.079 .0.	4.89 7	44.038 372	12.00 162	30.000 211	47.92
100	28	48.015 363	14.36	23.303 459	4.82 54	44.410 355	13.62	37.179 296	49.36
Sept.	7	48.358 320	16.10 182	23.822 422	5.36 113	44.765 330	15.36 183	37.475 277	50.72 127
	17	48.678	17.92 180	24.244	0.49	45.095 204	17.19	37.752	51.99 114
01.	27	48.971 262	19.77	24.019 278	8.18	45.399 273	19.10	38.006	53.13 101
Okt.	7	49.234 231	21.64	24.937 254	10.35 208	45.072	21.03	38.235	54.14 87
	17	49.465 198	23.49 181	25.191 184	12.93 289	45.912 206	22.90 190	38.438 175	55.01 73
	27	49.663 160	25.30 173	25.375 110	15.82 308	46.118 168	24.86	38.613	55.74 60
Nov.	6	49.823	127.03	25.485 25	18.90 315 22.05 311	46.286	20.72	38.757	56.34 47
	15	49.945 82	28.08	25.520	22.05 311	40.414 86	20.40 165	30.071 82	50.81
Section 1	25	50.027	30.20 T28	25.481	25.10	46.500 43	30.13	38.953 <sub>48</sub>	57.10
Dez.	5	50.068 -3	31.58 119	25.370 178	28.08 292	46.543 =	31.63	39.001 13	57.40
	15	50.065	32.77 98	25.192 239	30.73 227	46.542 46	32.94 111	39.014 22	57.55 5
	25	50.020 86	33.75 75	24.953 202	33.00 181	46.496 89	34.05 85	38.992 56	57.00
	35	49.934	34.50	24.660	34.81	46.407	34.90	38.936	57.55
	l. Ort	46.259	10.91	21.670	33.55	42.653	10.86	35.589	39-45
	, $tg \delta$	1.280	+0.799	1.997	-1.728	1.320	+0.862	1.061	+0.355
	a'	+3.8	+14.1	+1.4	+14.0	+3.9	+13.9	+3.4	+13.6
b,	b'	+0,04	— o.71	l —o.o8	- o.7I	+o.o4	- o.72	+0.02	- o.73

Tag		1090) 79 G. Fornacis		115) 48 H. Cephei		120) a Persei		121) o Tauri	
		AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1947		3 <sup>h</sup> 12 <sup>m</sup>	-35° 44'	3 <sup>h</sup> 13 <sup>m</sup>	+77°32′	3 <sup>h</sup> 20 <sup>m</sup>	+49° 40′	3 <sup>h</sup> 21 <sup>m</sup>	+8° 50′
		12119 3130 21	11.500	, B				,	
Jan.	0	35.369 140	86.60	32.19 63	47.86 207	31.516	36.41	57.324 68	36.49 48
	10	35.229 169	88.15	31.56 75	49.93	31.379 182	37.55	57.256 98	36.01 47
	20	35.060 192	89.30 71	30.81 85	51.50 101	31.197 220	38.34 43	57.158 98	35.54 44
Febr.	30 9	34.868 <sub>208</sub> . 34.660 <sub>214</sub>	90.01 25	29.96 91 29.05 93	$52.51_{-41}$ $52.92_{-78}$	30.977 246	$\begin{vmatrix} 38.77 & 4 \\ 38.81 & \frac{4}{24} \end{vmatrix}$	57.035 142	35.10
1001.	9		90.20 21	92	52.92 18	30.731 261	54	56.893 153	34.71 35
100	19	34.446 213	90.05 66	28.13 90	52.74 76	30.470 260	38.47 69	56.740	34.36 28
März	I	34.233 201	89.39 110	27.23 84	51.98	30.210 245	37.78	56.585 148	34.08 19
	II	34.032 180	88.29	26.39 74	50.68 176	29.905 217	36.75	50.437	33.89
	21	33.852 150	86.78	25.65 61	48.92 216	29.748	35.44 151	56.306 105 56.201 73	$33.80 - \frac{9}{3}$
1 199	31	33.702 112	84.88 224	25.04 44	240	29.574 121	33.93 165	,/4	-33.83 18
April	10	33.590 68	82.64 254	24.60 27	44.30 265	29.453 59	32.28	56.129 33	34.01 35
	20	33.522 19	80.10	24.33 8	41.65	29.394 7	30.58	56.096	34.36
	30	33.503 =	77.30 300	24.25 =	38.92	29.401	20.00 160	1 20.100 L8	34.89
Mai	10	33.536 85	74.30 313	24.37	36.21 260	29.478 146	27.28	56.166	35.60 91
	20	33.621 137	71.17 320	24.68 49	33.61 238	29.624 211	25.84 122	56.271 149	36.51 109
	30	33.758 185	67.97 319	25.17 66	31.23 210	29.835 271	24.62 97	56.420	37.60 126
Juni	9	33.943 220	104.78	25.83 80	29.13	30.100	23.65 67	56.611	38.86
	19	34.172 267	296	26.63 93	27.38 136	30.429 268	22.98 35	50.838 257	40.20
T1:	29	34.439 298	58.70 272	27.56 103	26.02 91	30.797	22.63 3	57.095 282	41.70 158
Juli	9	34.737 322	55.98 242	28.59 110	25.11 46	31.199 427	22.60 30	57-377 299	43.34 161
	19	35.059 337	53.56 204	29.69 115	24.65	31.626	22.90 62	57.676 308	44.95 159
	29	35-396 344	51.52 162	30.84 118	24.66	32.000 447	23.52	57.984 312	46.54
Aug.	8	35.740	49.90 113	32.02 118	25.15	32.515	24.44	50.290 200	48.07
	18	36.083	48.77 62	33.20 115	26.09	32.960 434	25.64 144	58.605 301	49.49 128
	28	36.417 319	48.15 9	34-35 111	27.48 180	33.394 416	27.08 166	58.906 288	50.77 110
Sept.	7	36.736 297	48.06	35.46	29.28	33.810	28.74 185	59.194 271	51.87 go
	17	37.033 269	48.50 95	36.51 96	31.47 252	34.203 265	30.59 200	59.465 251	52.77 6g
	27	37.302	49.45	37.47 86	33.99 282	34.500 222	32.59 211	59.710 228	53.46 48
Okt.	7	37.539 201	50.86 182	38.33 75	36.81 307	34.901 207	34.70 219	59.944 204	53.94 27
	17	37.740 163	52.68 216	39.08 62	39.88 307	35.198 256	36.89 223	60.148	54.21 7
	27	37.903 123	54.84 239	39.70 47	43.13 337	35.454 213	39.12 224	60.325 149	54.28
Nov.	6	1 28 026	57.23 254	40.17	40.50	35.667 166	41.36	1200.474	54.19 23
	15	38.108	59.77 258	40.48 15	1 49.91 228	35.833 116	43.57 213	00.594 88	53.96 34
	25	J 2	U4.35 200	40.03	1 30 - 7 226	35.949 62	45.10 200	60.682 56	53.62 42
Dez.	5	38.145 43	64.86 235	40.60 3	56.55 304	36.012 8	47.70 183	60.738 23	53.20 46
	15	38.102 82	67.21 211	40.40	59.59 274	36.020 47	49.53 161	60.761	52.74 48
	25	38.020 118	69.32 178	40.03 53	62.33 236	35.973 100	51.14 133	60.749 45	52.26 49
The state of	35	37.902	71.10	39-50	64.69	35.873	52.47	60.704	51.77
Mittl	l. Ort	34.958	74.08	31.07	34.94	3r:598	27.56	57.437	37.41
	, tgδ	1.232	-0.720	4.636	+4.527	1.545	+1.178	1.012	+0.156
a,	a'	+2.4	+13.4	+7.6	+13.3	+4.3	+12.8	+3.2	+12.8
b, b'		-0.03	- 0.74	+0.20	— o:75	+0.05	- 0.77	+0.01	- o.77

Tog 122) 2 H. Camelop. 125) 5 Tauri 127) ε Eridani 1) 131) δ Persei										
Tag		THE PARTY OF THE P								
	74	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	
194	7	3 <sup>h</sup> 24 <sup>m</sup>	'+59°45'	3 <sup>h</sup> 27 <sup>m</sup>	+12° 45′	3 <sup>h</sup> 30 <sup>m</sup>	-9° 37′	3 <sup>h</sup> 39 <sup>m</sup>	+47°37′	
Jan.	0	45.581 196	37.94 156	56.467 64	23.49 33	25.933 79	76.95 111	8.437 108	19.92 118	
	10	45.385 255	39.50	56.403	23.16 35	25.854	78.06 or	8.329	21.10 88	
	20	45.130	40.66	50.307	22.81 36	25.747	78.97 60	8.172	21.98 55	
	30	44.827 337	41.38 26	56.184	22.45 36	25.616	79.66	7.975 228	22.53 19	
Febr.	9	44.490 354	41.64 =	56.041	22.09 34	25.466 162	80.12	7.747 246	22.72 16	
	19	44.136	41.42 67	55.886 159	21.75 32	25.304 164	80.33	7.501 252	22.56	
März	I	43.783 333	40.75	55.727 152	21.43 28	25.140	80.29 31	7.249	22.05 83	
	II	43.449 297	39.66	55.575 126	21.15 22	24.982	79.98 57	7.006	21.22 109	
	21	43.152	38.21	55.439 110	20.93 12	24.840	79.41 82	6.786	20.13	
	31	42.909 176	36.47 196	55·3 <sup>2</sup> 9 <sub>77</sub>	20.81	24.723 86	78.59 108	6.604 134	18.81 147	
April	IO	42.733 <sub>98</sub>	34.51 208	55.252 37	20.80	24.637 48	77.51 132	6.470 78	17.34 156	
	20	42.635 14	32.43	55.215 $\frac{37}{8}$	20.94 30	24.589	76.19 156	6.392	15.78 156	
	30	42.621	30.31	55.223 54	21.24 48	24.584	74.03 176	6.377 =	14.22	
Mai	10	42.694	28.24	55.277	21.72 66	24.625 86	72.87	6.428 118	12.72	
	20	42.854 243	20.30	55.379 147	22.38 84	24.711	70.93 209	6.546 183	11.35 120	
	30	43.097 318	24.56	55.526 189	23.22 103	24.842 173	68.84 219	6.729 241	10.15 97	
Juni	9	43.415 386	23.08 116	55.715 227	24.25 118	25.015	66.65 224	6.970	9.18 9/	
	19	43.801	21.92 83	55.942 258	25.43	25.225	64.41	7.265 341	8.47	
	29	44.243	21.09 46	56.200	20.74	25.466 268	62.17 218	7.606 376	8.05 13	
Juli	9	·44.731 521	20.63 7	56.483 3or	28.15 146	25.734 286	59-99 206	7.982 404	$7.92 \frac{3}{17}$	
	19	45.252 543	20.56	56.784 311	29.61 149	26.020 298	57.93 189	8.386	8.09 46	
	29	45.795	20.86 67	57.095 316	31.10	26.318 304	56.04 166	8.808 432	8.55 74	
Aug.	8	40.347	21.53 103	57.411	32.56	26.622	54.38 138	9.240 432	9.29 100	
	18	46.899 542	22.56	57.725 207	33.95 129	26.925 295	53.00 107	9.672 426	10.29	
	28	47.441 522	23.91 166	58.032 294	35.24 115	27.220 283	51.93 71	10.098 413	11.52 143	
Sept.	7	47.963 495	25.57 192	58.326 278	36.39	27.503 267	51.22 25	10.511	12.95 161	
	17	48.458 460	27.49 216	58.604	37.38 99	27.770	$50.87 \frac{35}{1}$	10.906 370	14.56	
250	27	48.918 420	29.65 236	58.862 237	38.20 63	28.017	50.88	11.276 343	16.31 187	
Okt.	7	49.338	32.01	59.099 212	38.83 44	28.241	51.25 68	11.619	18.18	
	17	49.712 374	34.52 262	59.311 186	39-27 28	28.440 170	51.93 97	11.929 275	20.13 202	
	27	50.034 265	37.14 268	59.497 159	39.55 13	28.610	52.90 119	12.204 234	22.15 203	
Nov.	6	50.299 203	39.82 269	59.656 129.	$39.68 \frac{13}{1}$	1 28.752	54.09 135	12.438	24.18	
	15*)	50.502	42.51 264	59.785	39.67	28.863	1 55.44	12.629 143	26.21 108	
	25	50.639 66	45.15 252	59.882 65	39.56	28.942 46	56.89	12.772 92	28.19 180	
Dez.	5	50.705 7	47.67 235	59.947 29	39-37 24	28.988 12	58.36	12.864 38	30.08 175	
	15	50.698	50.02	59.976 6	39.13 30	29.000	59.81 136	12.902	31.83 158	
	25	50.619 149	52.12	59.970 40	38.83	28.977	61.17 122	12.885	33.4I 134	
	35 —	50.470	53.91	59.930	38.51	28.922	62.39	12.814	34.75	
Mittl. Ort		45.467	27.43	56.572	23.28	25.877	71.31	8.431	11.78	
sec δ, tg δ		1.986	+1.715	1.025	+0.225	1.014	-0.170	1.484	+1.096	
a, a'		+4.9	+12.6	+3.3	+12.3	+2.9	+12.2	+4.3	+11.6	
b, b'		+0.07	— o.78	+0.01	<b>- 0.79</b>	-0.01	- o.79		— o.82	
2700-075	200	Notes of the last	THE PROPERTY OF THE PARTY OF TH	ALL WHAT THE PARTY OF	TOTAL STREET			The state of the s		

 <sup>1)</sup> Die j\u00e4hrliche Parallaxe (o\u00edg305) ist bereits ber\u00fccksichtigt.
 \*) Bei Stern 131) lies Nov. 16.

1000	19-36-K		D	\ 0 T	Da4: aud:		m ·	\ a	
Ta	g	134) v	-	141) β F	100000000000000000000000000000000000000	139) ŋ	Tauri	140) τ <sup>6</sup>	Eridani
100	1967	AR.	Dekl	AR.	Dekl.	AR.	DekL	AR.	Dekd.
194	17	3 <sup>h</sup> 41 <sup>m</sup>	+42° 24'	3 <sup>h</sup> 43 <sup>m</sup>	-64° 57′	3 <sup>h</sup> 44 <sup>m</sup>	+23° 56′	3 <sup>h</sup> 44 <sup>m</sup>	-23° 23′
	all or	8	Y 100			8			
Jan.	0	35-036	53.59 97	34.00 36	98.39	19.660 58	37.22	34.298 88	86.41
	10	34.946	54.56	33.64	100.30	19.602	37.37 6	34.210	88.00
	20	34.812	55.26 43	33.22	101.82	19.507 126	37.43 -6	34.089 148	89.30 96
023	30	34.640 201	55.69 12	32.15 00	102.73 33	19.381 152	37.37	33.941	90.26
Febr.	9	34.439 220	55.81 <u></u>	32.25 51	103.06 =	19.229 167	37.20 28	33.771 183	90.85 23
	19	34.219 226	55.63 47	31.74 51	102.80 82	19.062	36.92	33.588 189	91.08
März	1	33.993 219	55.16 75	31.23 49	101.98	18.888	36.55	33.399 184	90.93 53
	II	33.774 108	54.41 97	30.74 46	100.03 186	18.718	36.10 45	33.215	90.40 88
	21	33.576 165	53-44 115	30.28	98.77	18.563	35.59 51	33.044	89.52
	31	33.411	52.29 126	29.87 36	96.45 272	18.434 95	35.08 50	32.897 116	88.29 156
April	10	A STATE OF THE STA		Calculation and the same of		T8 220	34.58	20 707	A CONTRACTOR OF THE SECOND
Aprii	20	33.289 70	51.03 132	29.51 28	93.73 306	18.285	34.14 34	22 702	86.73 <sub>187</sub> 84.86 <sub>213</sub>
		33.219 12	49.71 130 48.41	29.23 <sub>20</sub> 29.03 <sub>12</sub>	90.67 334	18.278 7	22 8T 33	22 668	82.73 236
Mai	30	33.207 48		28.91 2	87.33 355 83.78 367	18.321 43	22 60	32.679	80.37 255
mai	20	33.255 110 33.365 169	47.17 110	$28.89 \frac{2}{7}$	80 11	18.414 93	22.56 -	32.738 59	77.82 268
	20	33.303 169	40.07 92	The state of the s	80.11 372	142	33.30 14	COLUMN TWO IS NOT THE OWNER.	ESCHOOL STORY
	30	33.534 225	45.15 70	28.96 16	76.39 367	18.556 188	33.70 32	32.845 152	75.14 275
Juni	9	33.759 272	44.45 46	20 T2	72.72	18.744	34.02	32.997 193	72.39
	19	34.032	43.99 20	29.36	09.17	18.973	34.53 70	33.190 229	69.62
	29	34.347 248	43.79	29.00	05.04	19.2.30	35.23 85	33.419 260	00.92 258
Juli	9	34.695 374	43.86	30.08 46	62.82 264	19.527 312	36.08	33.679 284	64.34 237
	19		44.20	30.54 <sub>50</sub>	60.18 219		37.07 111	33.963 <sub>301</sub>	61.97 211
	29	35.069 391 35.460	14 70 59.	27.04	57.99 166	20.166	1 -0 -0	34.264 310	59.86 178
Aug.	8	25 860	AF 6T	31.04 54 31.58 56	56.33 108	20.499 333	00.06	34.574 314	58.08 178
	18	26 260	45.61 104 46.65 122	72.14	55-25 48	20.832 333	40.58 123	1 24 XXX	56.68
	28	36.655 395 36.655 383	47.87 138	22.7T 3/	FA PP -	21.161 318	41.81	25 108	55.71 52
			The state of the s	33	54.// 15	THE RESERVE AND ADDRESS OF THE PARTY.	THE RESERVE OF THE PARTY OF THE	The state of the state of the	,
Sept.	7	37.038 365	49.25 151	33.26 52	54.92 78	21.479 304	43.02 116	35-499 287	55.19 4
	17	37.403	50.76	33.70	55.70 139	21.783 286	44.18 108	35.786 268	55.15 42
	27	37.747	52.37 r68	34.27 43	57.09 192	22.069 266	45.26	36.054 245	55.57 86
Okt.	7	38.000	54.05	34.70 26	59.02 242	22.335 242	46.27 91	36.299 218	56.43 127
1	17	38.356 257	55.78 176	35.06 29	61.44 281	22.577 216	47.18 81	36.517 189	57.70 162
	27	38.613 222	57-54 176	35.35 20	64.25 309	22.793 188	47.99 72	.36.706	59.32 189
Nov.	6	38.835 182	59.30 173	35.55 11	67.34 325	22.981	48.71 63	36.863	61.21 208
	16	39.017	61.03 168	35.66	70.59 325	23.138	49.34 55	36.986 87	63.29 218
	25	39.017 139	62.71	35.68 -7	70.59 329 73.88 320	23.261 87	49.89 47	37.073 50	65.47
Dez.	5	39.249 45	64.30 147	35.61	73.88 320 77.08 300	23.348 49	50.36 39	37.123 12	67.67 214
	15		STATE OF THE PARTY	SECTION SECTION	80.08 268	22 207	50,75	37.135 27	69.81 198
	25	20.288	65.77 131 67.08 111	35.44 <sub>24</sub>	82.76 227	22 406 -	51.05 22	37.108 64	71.79 176
	35	39.233 55	68.19	35.20 34.88	85.03	23.400 30	51.27	37.044	73.55
2520110		07 00	1	A STATE OF THE STA	-500	380,300			ng oc
Mittl.		35.063	46.48	31.65	83.90	19.725	34.11	33.975	78.39
sec δ,		1.354	+0.914	2.364	-2.142	1.094	+o.444	1.090 -1-2.6	-0.433 +11.2
a,		+4.1	+11.4	+0.7	+11.2	+3.6	+11.2	<del></del>	- 0.83
b,	6'	1+0.03	- o.82	l —o.o8	— o.83	+0.02	- o.83	-0.02	0.03

		138) y C	amelop.	143) 138 G	Eridani	146) γ	Hydri	1105) +57°	752 Caml
Ta	g	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1000	80 15								
194	17	3 <sup>h</sup> 44 <sup>m</sup>	+71°10′	3 <sup>h</sup> 47 <sup>m</sup>	-36° 21′	3 <sup>h</sup> 47 <sup>m</sup>	-74° 23′	3 <sup>h</sup> 49 <sup>m</sup>	+57° 49′
Jan.	0	44.42 32	29.66	28.778	45.12 187	66.68 64	81.14	24.404 145	20.38 168
Court	10			28.050	46.99	66.04 72	83.08 141	24.259 208	22.06
	20	43.69 41	27 54 1/3	28.498 188	1X 1X	65.32 80		24.051 262	22.28
-	30	12 TO	34.78	28.310	49.54 60	64.52	85.35 27	23.780	24.30
Febr.	9	42.64 59	35.49 16	28.099 225	50.14 13	63.68 86	X5 02 -	23.487 327	24.80 6
	400	59			-3		34	THE RESERVE TO SHARE THE PARTY OF THE PARTY	08 HE
nar.	19	42.05 59	35.65 38	27.874 230	50.27	62.82 85	85.30 88	23.160 336	24.86
März	I	41.40	35.27 90	27.044	49.94 78	61,97 83	84.42	22.824 326	24.47 80
	II	40.89 53	34-37	27.420 209	49.16	61.14 77	83.01	22.490 298	23.67 118
	21	40.36 44	33.00 178	27.211 184	47.93 164	00.37	81.09 237	22.200 255	22.49 149
	31	39.92 35	31.22 210	27.027 149	46.29 201	59.07 62	78.72 276	21.945 196	21.00
April	10	39-57 24	29.12 233	26.878 109	44.28 235	59.05	75.96	21.749 126	19.26 189
	20	39.33 11	20.79 246	26.769 62	41.93 265	58.54	72.87	21.623 50	17.37
	30	39.22 -	24.33	26.707 11	39.28	58.54 38 58.16 26	104.51	21.573	15.39 198
Mai	10	39.24 16	21.82 244	26.696 -	36.40 306	57.90 13	65.95 367	21.605 115	13.41 190
	20	39.40 28	19.38 230	26.738	33.34 318	57.78 -2	62.28 370	21.720 196	11.51 175
	20	(0	0			57.80	-0 -0		9.76
Juni	30	39.08 <sub>40</sub> 40.08 <sub>50</sub>	17.08 209	26.832 <sub>145</sub> 26.977 <sub>192</sub>	26.05 321	57.96	54.92 366	21.916 22.186 338	8 00 -34
oun	9	10 EX	14.99 181	27.169 233	26.95 318 23.77 207	58.26 30	51.41	22.100 338	604
	29	41.18 68	TT.7T	27.402 233	30/	58.68 42	18 T2 329	22.524 396	F 06
Juli	9	41.86	TO 60		17.83 260	FO 22 34		23.365 445	E 2T
o din	9	74	10.02 69	499	- 479 KG - 122 KG	Control of the last of the las	45.14 259	23.303 482	3
	19	42.60	9.93 28	27.971 320	15.23 225	59.86	42.55 212	23.847 509	5.00 4
Section 1971	29	43.39 82	9.65 -	28.291 335	12.98	60.58 78	40.43	24.350 626	5.04 38
Aug.	8	44.21 82	9.80	28.020	11.13 138	61.36 78	38.83	24.881 530	5.42
	18	45.03 83	10.37 98	28,966	9.75 87	62.19	37.81 40	25.411	6.14 103
	28	45.86 80	11.35 137	29.305 339	8.88	63.02 83	37.4I	25.938 515	7.17 132
Sept.	7	46.66	12.72	29.635 315	8.55	62.85	37.63 8.	26.453 495	8.49
	17	47.43 73	TA 46 1/4	29.950 294	Q mm	64.64 79	37.03 85	26.948. 468	10.08
	27	48.16 67	T6 F2	30.244 267	9.53 76	65.37 73	20.02		163
Okt.	7	48.83 61	18.88 236	20 ETT	I TO YO	66.01 T	41.01	27 850 430	13.05
	17	49.44 53	21.50 282	30.746 201	12.52 211	66.54 53	44.38 285	28.248 396	16.15 235
	103		202	and the second second		of the population of the		334	235
NT a	27	49.97 44	24.32 298	30.947 162	14.63 240	66.96	47.23 313	28.600 301	18.50 244
Nov.	6	50.41 34 18 50.75 23	27.30 307	31.109 122	17.03 267	67.23 27	30.30 328	20.901 244	20.94 240
	16	18 50.75 23	3.31 200	18 <sup>31.231</sup> 78	19.64 271	67.36 13 67.36 3 67.33 3	53.04 330	29.145 182	23.43 248
Dez.	25	50.98 11	33.46 304 36.50 290	31.309 35	22.35 270	67.16	56.94 321	29.327 116	25.91 242
1762.	5	51.09	30.50 290	31.344 =	25.05 258	32	60.15 299	29.443 45	28.33 230
	15	51.09 12	39.40 268	31.334 54	27.63 238	66.84	63.14 266	29.488 26	30.63 212
	25	50.97 24	42.08 238	31.280 96.	30.01 210	66.38 46	65.80	29.462 98	32.75 186
	35	50.73	44.46	31.184	32.11	65.81 <sup>57</sup>	68.05	29.364	34.61
. Agrari	0-4	40.00	-0	-0	1985	6-1-1-1	66	2212 807	
Mittl. sec δ,		43.58	18.27	28.153	34.74	62.27	66.49	24.159	10.78
sec o,		3.099 +6.3	+2.933	1.242	-0.736 -III.0	3.719	-3.582	1.878	+1.589
b,		+0.3	+11.2 - 0.83	+2.2	+11.0 - 0.84	-0.9 -0.72	+10.9	+4.9 +0.06	+10.8 - 0.84
υ,		T-0.11	0.83	I —o.o3	- 0.04	—o.13	- 0.84	1-0.00	- 0.04

т,	ag	144) ζ	Persei	147) ε	Persei	148) ξ	Persei	149) γ ]	 Eridani
	ag ———	AR.	Dekl.	AR,	Dekl.	AR.	Dekl.	AR.	Dekl.
19	947	3 <sup>h</sup> 50 <sup>m</sup>	+31° 43′	3 <sup>h</sup> 54 <sup>m</sup>	+39° 51′	3 <sup>h</sup> 55 <sup>m</sup>	+35° 38′	3 <sup>h</sup> 55 <sup>m</sup>	-13° 39′
Jan.	0	47.621 61	45.25 53	17.381	37.62	31.154 63	30.94	33.510 64	34.21
	IO	47.560	45.78 37	17.310	38.53 91	31.001	31.67	22 116	25 58 23/
	20	47.459	46.15 ,8	17.1946	39.23	30.980	32.20 53	33.440 98	36.72 89
	30	47.322 164	46.33	17.038 -06	39.67 18	30.043	32.53	33.222	37.61 61
Febr.	9	47.158 183	46.33 19	16.852 208	39.85	30.670 173	32.64 -	33.072 166	38.22
	19	46.975 191	46.14 37	16.644 217	39.76	30.477 202	32.52	32.906	38.55 3
März	I	46.784 -8-	45.77 54	10.427	39.40	30.275 199	32.17	32.733 171	38.58 27
	II	46.597	45.23 66	16.215	38.79 82	30.076	31.62 72	32.562	38.31 56
	21	46.425 145	44.57 76	16.018 167	37.97 99	29.892	30.90 86	32.402	37.75 85
	31	46.280 109	43.81 80	15.851 107	36.98	29.735 119	30.04 93	32.263 110	36.90
April	10	46.171 65	43.01 80	15:724 79	35.88 116	29.616 74	29.11	32.153 74	35.77 140
	20	46.106	42.21 75	15.045 24	34.72 116	29.542 22	28.14	32.079 33	34.37 165
Mai	30	46.091 38	41.46 65	15.621 34	33.56 109	29.520 33	27.20 87	32.046	32.72 187
Mai	20	46.129 92	40.81 51	15.655 93	32.47 <sub>98</sub>	29.553 89	26.33 75	32.057	30.85 207
		46.221 144	40.30 35	15.748	31.49 82	29.642	25.58 58	32.114 103	28.78 222
200	30	46.365	39.95 15	15.898 205	30.67 63	29.785	25.00 40	32.217 146	26.56 232
Juni	9	40.550	39.80 6	10.103	30.04 41	29.980	24.60 18	32.363 186	24.24
	19	46.794 275	39.86 26	1 10.350	29.63 17	30.221 281	24.42 3	32.549 221	21.80
Juli	29	47.069 306	40.12	16.651 329	29.46 7	30.502	24.45 26	32.770 250	19.49 222
ouii	9	47.375 328	40.59 65	16.980 329	29.53 31	30.816 339	24.71 46	33.020 273	17.17 218
	19	47.703	41.24 83	17.336	29.84 54	31.155 356	25.17 66	33.293 289	14.99 199
Ana	29	40.040	42.07 96	1/./10 00.	30.38	31.511	25.83 83	33.582	13.00
Aug.	8	48.401	43.03 108	18.094 388	31.13 93	31.077 270	26.66 99	33,882	11.26
	28	48.756 351	44.11	18.482 384 18.866 384	32.06 110	34.441 066	27.65 110	34.186 301	9.82
	20	49.107 342	45.28 117	3/5	33.16 123	32.613 357	28.75 120	34.487 294	8.72
Sept.	7	49-449 328	46.50 125	19.241 361	34.39 134	32.970 343	29.95 127	34.781 <sub>282</sub>	8.01 32
100	17	49.777	47.75 126	10.002	35.73 142	33.313 226	31.22	35.063 266	7.69
Okt.	27	50.007 288	49.01 .125	19.945 343	37.15 149	33.639 305	32.54 134	35.329 246	7.78 48
OKt.	7 17	50.375 265	50.26	20.204	38.64 152	33.944 281	33.88	35.575 223	9.10
12.2		50.640 238	51.47 118	20.558 264	40.16	34.225 253	35.22	35.798 197	110
NT.	27	50.878 208	52.65 114	20.822	41,71 155	34.478 221	36.56	35:995 170	10.26
Nov.	6	51.086	153.79 107	21.053	43.20	34.699 187	37.00	36.165 139	11.67 161
	16	1051.201 138	54.86	21.247	44.79 150	34.886	39.17	36.304 106	13.28
Dez.	25	32.399 99	55.87 94	109	40.29 142	35.033 108	40.41	36.410 36.481 71	15.00
JACE.	5	51.498 57	56.81 85	21.509 62	47.71 133	35.143 63	41.58 108	33	16.77
	15	51.555 14	57.66	21.571 13	49.04 120	35.206 16	42.66	36.516	18.51 164
	25	51.569 =	58.40 62	$21.584 \frac{1}{37}$	50.24 103	35.222 30	43.63 82	36.514 39	20.15
	35	51.538	59.02	21.547	51.27	35.192	44.45	36.475	21.64
	. Ort	47.652	40.43	17.363	31.19	31.152	25.35	33.287	28.85
	, tg δ		+0.618		+0.835	But the second of the second	+0.717	THE RESERVE OF THE PARTY.	-0.243
	a'	TANK MILES	+10.7	THE PARTY OF THE P	+10.5		+10.4	and the second second	+10.4
<i>b</i> ,	b.'	+0.02	- o.85	+0.03	— o.85	+0.02	— o.86	-0.01	— o.86

10.00			2500				Service Control	SESTEMBER OF	58,64,24
Ta	1.0"	150) λ	Tauri	151) v	Tauri	153) 174 G	. Eridani	152) 48	Persei
	°5	AR.	Dekl.	AR,	Dekl.	AR.	Dekl.	AR.	Dekl.
194	47	3 <sup>h</sup> 57 <sup>m</sup>	+12° 20′	4 <sup>h</sup> 0 <sup>m</sup>	+5° 50′	4 <sup>h</sup> 3 <sup>m</sup>	-27° 47′	4 <sup>h</sup> 4 <sup>m</sup>	+47° 34′
Jan.	0	44.428	32.00	20.069 44	36.67 64	26.771 85	52.02 182	48.391 79	30.55 132
	IO	44.383 80	31.66	20.025	36.03 56	20.086	53.84	48.312	31.87 106
	20	44.303 112	31.32	19.946 79	35.47	20.505	55.33	48.180	32.93 77
Theles	30	44.191 138	31.00 31	19.836	34.98	20.412	56.47 74	48.001 217	33.70
Febr.	9	44.053	30.69 28	19.700 153	34.57 31	20.234 195	57.21 33	47.784 242	34.13 9
	19	43.898 163	30.41 26	19.547 162	34.26	26.039 203	57.54 7	47.542 254	34.22
März	Ι	43.735 162	30.15	19.385 161	34.05 10	25.830	57.47	47.288	33.97 58
	II	43.573 151	29.94 15	19.224 150	33.95 2	25.634	56.98 88	47.036 235	33.39 87
	21	43.422	29.79 7	19.074 130	33.97 16	25.443 170	56.10 126	40.801	32.52
	31	43.292 99	29.72 3	18.944 101	34.13	25.273 140	54.84 162	46.598 161	31.40
April	10	43.193 62	29-75 15	18.843 65	34.44 47	25.133 103	53.22 195	46.437 107	30.09 143
	20	43.131 20	29.90	18.778	34.91 65	25.030 60	51.27 224	46.330 46	28.66
2011	30	43.111 =	30.20	18.754 = 1	35.56 82	24.970 13	49.03	46.284 18	27.17 148
Mai	10	43.137 74	30.66 62	18.775 67	36.38 99	24.957 =	46.54 269	46.302 84	25.69 141
	20	43.211 119	31.28 78	18.842	37.37 116	24.992 83	43.85 283	46.386	24.28
9.1	30	43.330 163	32.06	18.954 155	38.53 131	25.075	41.02 291	46.535 211	23.00
Juni	9	43.493	33.01	19.109	39.84	25.200	38.11	46.746	21.90 88
	19	43.695 226	34.09 121	19.303	41.20	25.301	35.18 287	47.013	21.02 63
T 1.	29	43.931 265	35-30 129	19.530	42.77 157	25.595 248	32.3I 274	47.320 0-6	20.39 37
Juli	9	44.196 286	36.59 135	19.786 278	44.34 157	25.843 276	29.57 253	47.684 388	20.02
	19	44.482 301	37.94 136	20.064 293	45.91 153	26.119 297	27.04 225	48.072	19.93 18
	29	1 44.703 210	39.30	20.357 303	147.44	26 116	24.79	48.483	20.11
Aug.	8	1 45.093 ara	40.03		48.89		22.89	48.909	20.55 69
	18	45.405	41.89 116	20.965 303	50.21	27.044 318	21.39	49.341	21.24 92
	28	45.715 302	43.05 102	21.200 296	51.36 94	27.302 313	20.34 56	49.773 424	22.16
Sept.	7	46.017 290	44.07 85	21.564 285	52.30 73	27.675 301	19.78 6	50.197 411	23.29 131
	17	40.307	44.92 68	21.849	53.03 48	27.970 -0-	19.72	50.008	24.60
	27	40.582	45.60 49	22.120	53.51 24	28.261	20.10	51.000 369	20.07
Okt.	7	40.839	46.09 32	22.372	53.75 r	28.524 238	21.09	51.369 341	27.07
	17	47.070 213	46.41	22.605 209	53.76 79	28.762 209	22.46 175	51.710 308	29:39 180
	27 :	47.289 187	46.55	22.814 184	53.57 38	28.971	24.21 205	52.018 271	31.19 187
Nov.	6	47.476	46.55	22.998	53.19 52	29.140	26.26	52.289	33.06
	16	2147.035 127	46.43	21 23.153 125	52.67 62	29.290 104	28.54 241	2352.518 182	34.96
	25	47.762	46.22	23.278	52.05 68	29.394 .65	30.95 244	52.700	36.85 186
Dez.	5	47.856 58	45.94 33	23.370 56	51.37 71	29.459 23	33.39 238	52.832 76	38.71 176
	15	47.914 20	45.61 34	23.426 19	50.66	29.482	35.77 223	52.908 18	40.47 164
	25	47.934 -	45.27 35	23.445 18	49.95 66	29.405	38.00	52.926 -	42.11 146
	35	47.915	44.92	23.427	49.29	29.406	40.00	52.887	43.57
Mittl.	Ort	44.410	31.45	20.008	37.53	26.281	44.23	48.246	22.94
sec δ,		1.024	+0.219	1.005	+0.102	STATE OF THE PARTY	-0.527	1.482	÷1.094
a,		+3.3	+10.2	+3.2	+10.o	+2.5	+9.8	+4.4	+9.7
b,	<i>b'</i>	+0.01	— o,86	0.00	— o.87	-0.02	<b>—</b> 0.87	+0.04	-o.88

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Та	o	154) o <sup>1</sup>	Ecidani	155) α H	orologii	156) a I	Reticuli	162) δ	Tauri
	0	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl
194	17	4 <sup>h</sup> 9 <sup>m</sup>	−6° 58′	4 <sup>h</sup> 12 <sup>m</sup>	-42° 24′	4 <sup>h</sup> 13 <sup>m</sup>	-62° 35′	4 <sup>h</sup> 19 <sup>m</sup>	+17° 25′
Jan.	0	16.757 47	31.17 118	15.550 128	96.19 220	46.53 29	93.46	52.552 28	13.34 10
	10	16.710	32.35 100	15.422	98.39 .00	46.24	95.80	52.524 68	13.24
	20	16.628	33·35 81	15.251	100.19	45.89 41 45.48 44	97.68	52.456	13.11
	30	10.514	34.16 <sub>60</sub>	15.044	101.54	45.48 44	99.03	52-353 122	12.97 16
Febr.	9	16.375 158	34.76	14.807 256	102.41 37	45.04 48	99.83 23	52.220 156	12.81
	19	16.217 168	35.13 14	14.551 266	102.78	44.56 47	100.06	52.064 169	12.62
März	Ι	16.049 -60	35.27 _10	14.285 265	102.65 60	44.09 48	99.72 80	51.895	12.41
	II	15.881	35.17 33	14.020 252	102.02		98.83	51.725 162	12.19 22
	21	15.722	34.84 58	13.700 220	100.92	43.16 45	97.42 190	51.562	11.97 19
	31	15.582 114	34.26 83	13.539 197	99.30 197	42.74 37	95.52 235	51.418 116	11.78
April	10	15.468 79	33.43 105	13.342 156	97.39 235	42.37 31	93.17 273	51.302 81	11.63 8
	20	15.389 39	32.38 129	13.186	95.04 267	42.00	90.44	51.221 38	11.55 3
35.	30	15.350 -	31.09 150	13.078 55	92-37 294	41.82 16	107.37	51.183 8	11.58
Mai	10	15.355 49	29.59 168	13.023	89.43 315	41.66 8	04.04	51.191 55	11.72 28
	20	15.404 94	27.91 185	13.023 56	328	41.50 I	363	51.240 103	12.00 43
	30	15.498 138	26.06	13.079 112	83.00	41.59 9	76.89 366	51.349 148	12.43 57
Juni	9	15.636	1 24.00	13.191 164			1 73.23	51.497 180	13.00
	19	15.813	22.04	13.355 212			09.03	51.686 226	13.72 84
3 2 3 4	29	16.025	19.95	13.567 255	13.01 201	42.10	00.10	51.912 256	14.56 96
Juli	9	16.266 265	17.89 199	13.822 291	70.03 279	42.42 39	62.97 289		15.52 103
	19	16.531 283	15.90 186	14.113 321	67.24 244	42.81	60.08 248	52.449 300	16.55 109
	29	T6 XT4	14.04	14.434	1 64.80	44.25	57.00 TOO	52.749	17.04
Aug.	8	17.108	12.38	1 14.775	02.78	43.72	55.01 145	53.000 217	18.73 108
	18	11.400 200	10.90	1. 15.124	01.25 ror	44.23 "	54.10 86	53.311 218	19.81
	28	17.707 293	9.82 81	15.40/ 356	60.24 44	44.75 51	53.30 23	53.695 314	20.83 94
Sept.	7	18.000 284	9.01 47	15.843 345	59.80	45.26 51	53.07 41	54.009 305	21.77 82
	17	18.284	8.54 12	10.100	59.95 73	1 45.77 .0	53.48 103	54.314 202	22.59 70
	27	18.554	8.42 =	10.515	60.68	46.25	54.51 162	54.607 278	23.29 57
Okt.	7	18.807	8.65	1 10.017	61.96 178	40.08	56.14 216	54.885 260	23.86 43
	17	19.040 210	9.20 85	17.089 236	03.74 222	47.07 32	58.30 261	55.145 238	24.29 30
	27	19.250 184	10.05 109	17.325 195	65.96 257	47-39 25	60.91	55-383 214	24.59 19
Nov.	6	19.434	II.I4	17.520	00.53 282	4/.04 17	03.00	55.597 -9-	24.78
	16	1 19.509	12.41	17.671 103	71.35 205	47.81 8	1 01.09	55.784 155	24.88
	25*)	19.714 90	13.00	11.114 52	74.30 200	47.89 I	10.41 222	33.939 121	24.91
Dez.	5	19.804 54	15.25	17.827 3	77.29 289	47.90 9	73.74 319	<sup>26</sup> 56.060 82	24.88 6
	15	19.858 17	16.69	17.830 48	80.18	47.81	76.93 295	56.142 43	24.82 8
	25	19.875 -	10.00 127	17.782	02.00 242	47.04 24	79.88 261	56.185	24.74 10
- Pur	35	19.854	19.35	17.684	85.30	47.40	82.49	56.186	24.64
Mittl	. Ort	16.560	27.79	14.601	86.68	44.20	81.91	52.470	11.46
sec δ,		1.007	-0.122	1.355	-0.914	2.173	-1.930	1.048	+0.314
a,	a'	+2.9	+9.3	+2.0	+9.1	+0.8	+9.0	+3.5	+8.5
<i>b</i> ,	b'	0.00	-o.89	-0.03	<b>—0.89</b>	-0.06	-o.89	+0.01	-o.91
					171111111111111111111111111111111111111			E	4.7

\*) Bei Stern 162) lies Nov. 2 6.

E 47

Та	~	164) ε	Tauri	171) a I	Doradus	168) α	Tauri	169) v I	Cridani
	6	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
194	17	4 <sup>h</sup> 25 <sup>m</sup>	+19° 3′	4 <sup>h</sup> 32 <sup>m</sup>	-55° 8′	4 <sup>h</sup> 32 <sup>m</sup>	+16° 24′	4 <sup>h</sup> 33 <sup>m</sup>	-3° 27′
Jan.	0	31.175 24	54.68	52.634 185	83.02	52.702	17.56	40.353 25	35.49
	10	31.151 64	54.66	52.449 742	85.55	52.685 58	17.40 16	40.328 65	36.61
	20	31.087	54.62	52.206	87.66	52.627 96	17.24	40.263	37.58 97
	30	30.986	54.54 11	51.914	89.29 111	52.531 128	17.09	40.164	38.38
Febr.	9	30.853 156	54.43 15	51.583 359	90.40 56	52.403 152	16.92	40.035 153	39.00
	19	30.697 170	54.28 19	51.224 274	90.96 2	52.251 168	16.75	39.882 166	39.42
März	I	30.527	54.09 22	50.050 276	90.98 -	52.083	16.58	39.716	39.64
	II	30.353 +66	53.87 23	50.474 364	90.45 106	51.911 166	16.40	39.546	39.66 -
	21	30.187	53.64 22	50.110	89.39	51.745 150	16.23	39.380 150	39.46
	31	30.039 121	53.42 20	49.771 304	87.84 201	51.595 124	16.09 9	39.230 126	39.05 62
April	10	29.918 85	53.22	49.467 257	85.83 243	51.471 89	16.00 2	39.104 95	38.43 83
	20	29.833 43	53.07 6	49.210	83.40	51.382 49	15.98 -	39.009 56	37.00
1-20-11	30	29.790 -	53.01 -	49.009 139	80.61 309	51.333 5	16.05	38.953 14	36.50
Mai	10	29.793 51	53.06 18	48.870 72	11.52 222	$51.328 \frac{3}{43}$	16.24 31	38.939 =	35.32
	20	29.844 98	53.24 31	48.797 3	74.20 348	51.371 90	16.55 45	38.968 74	33.89
	30	29.942	53.55 46	48.794 67	70.72 356	51.461	17.00 59	39.042	32.30
Juni	9	30.086	54.01 60	48.861	10/110	51.596 176	17.59	39.160 158	30.50
	19	30.272 224	54.61 73	48.995 ros	63.61	51.772	18.31 84	39.318	28.77
	29	30.496	55.34 85	49.193 258	00.15	51.985 246	19.15 93	39.512 225	26.90
Juli	9	30.751 280	56.19 93	49.451 310	56.88 327	52.231 271	20.08	39.737 251	25.03 183
	19	31.031 299	57.12 99	49.761	53.88 264	52.502 291	21.09 104	39.988 272	23.20
	29	31.330	58.11	30.113 280	51.24 220	52.793 305	22.13	40.260	21.47
Aug.	8	31.043 310	59.14 101	50.504	49.04 168	53.090 313	23.18	40.545	19.90
	18	31.902	60.15 97	50.918	47.36	53.411	24.19 95	40.839	18.53
	28	32.283 317	61.12 90	51.348 433	46.23 51	53.726 313	25.14 86	41.136 296	17.42 83
Sept.	7	32.600 309	62.02 82	51.781 428	45.72	54.039 307	26.00 73	41.432 290	16.59
	17	32.909 200	62.84	52.209	45.83 74	54.340 207	26.73 60	41.722 270	10.07
01.	27	33.208 284	63.54 58	52.619 384	46.57	54.643 284	27-33 46	42.001 267	15.88 -
Okt.	7	33.492 266	64.12 46	53.003 347	47.91 TOT	54.927 267	27.79 31	42.268	16.01
	17	33.758 246	64.58 36	53.350 301	49.82 239	55.194 247	28.10	42.518 230	16.44 72
Jan Barre	27	34.004 222	64.94 25	53.651 249	52.21 278	55.441 225	28.29 7	42.748 207	17.16 96
Nov.	6	34.226	65.19	53.900	54.99 208	55.665	$28.29 \frac{7}{2}$	42.955 180	18.12
	16	34.420 162	65.36	54.090 126	150.07	55.863 168	28.34 8	43.135 150	19.25 126
-	26	34.583 128	65.47 6	54.216 58	01.33	56.031	28.26	43.285	20.51
Dez.	5	34.711 89	65.53	3054.274 11	04.04 323	3°56.164 95	28.13 16	43.402 81	21.84 134
	15	34.800 49	65.56 <sub>1</sub>	54.263 80	67.87 305	56.259 55	27.97 17	43.483 41	23.18
	25	34.849 6	65.57 =	54.183	10.92 277	50.314	27.80	43.524 2	24.48
188	35	34.855	65.55	54.038	73.69	56.326	27.63	43.526	25.68
	l. Ort	31.076	52.45	50.894	73.85	52.574	15.78	40.110	33.69
	, tgδ	1.058	+0.346	1.750	-1.436	1.042	+0.294	1.002	-0.060
	a'	+3.5	+8.o	+1.3	+7.4	+3.4	+7.4	+3.0	+7.4
Ъ,	b'	+0.01	-0.92	-0.04	-0.93	+0.01	-o.93	0.00	-0.93

-	Tag 172) 53 Eridani 174) τ Tauri 173) Grb 848 Caml 175) 4 Camelopard.									
Ta	g	AR.	Dekl.	AR.	Dekl.					
5 1,-6						AR.	Dekl.	AR.	Dekl.	
194	47	4 <sup>h</sup> 35 <sup>m</sup>	-14° 24′	4 <sup>h</sup> 39 <sup>m</sup>	+22° 51'	4 <sup>h</sup> 41 <sup>m</sup>	+75° 50′	4 <sup>h</sup> 43 <sup>m</sup>	+56° 39′	
Tan	7-1-1	45.450	26"27	8	28.22	47.00	6."		c "c.	
Jan.	0	45.470 37	26.35 159	3.741	28.47 19	41.98	64.59 271	35.273 55	63.64 192	
	20	45.433 76	27.94 137	3.729 3.672 57	28.41	41.73 41	67.30 239	35.218 33	65.56 169	
1974	30	45.357 111 45.246 <sub>141</sub>	29.31 112 30.43 82	2 576	28.55 9 28.64 9	41.32 55	69.69 198	35.089 195	67.25 138 68.63	
Febr.	9	45.105 164	27 26	3.375 131	$28.67 - \frac{3}{4}$	40.11	71.67 150	34.894 <sub>251</sub>	6-66	
1051.	9	11.75%	24	3.445 157	4	75	73.17 97	34.643 293	04	
	19	44.941 178	31.80 23	3.288 174	28.63	39.36	74.14 41	34.350 319	70.30 22	
März	I	44.763 -0-	32.03	3.114	28.52	38.57 81	74.55 =	34.031 228	70.52 -	
	11	44.581 178	31.96	2.934 175	28.33	37.76 77	74.40	33.703 210	70.33	
	21	44.403 162	31.57 68	2.759	28.00	36.99 72	73.70	33.384 291	09.75	
	31	44.241 139	30.89 98	2.600 132	27.81 30	36.27 62	72.50 165	33.093 248	68.80	
April	10	44.102 107	29.91 125	2.468	27.51 28	35.65	70.85 202	32.845 192	67.53 152	
F. Comb.	20	43.995 69		2 271 9/	27.23 24	25.15	1 08.83	32.653 124		
	30	43.926 27	27.14 176	2.315 10	26.99	34.80	66.52 250	32.529 50	64.31 181	
Mai	10	$43.899 \frac{27}{18}$	25.38 196	2,305	26.84 6	34.61 3	04.02	$32.479 \frac{50}{27}$	62.50	
	20	43.917 63	23.42	2.344 88	26.78 -	34.58 =	61.42 260	32.506 106	60.65 182	
		03	the same of the same					THE PART OF THE PA		
Juni	30	43.980 107	21.28 227	2.432	26.83 19	34.72 30	58.82 253	32.612 182	58.83 171	
Juni	9	44.087 148	19.01 233	2.567 178	27.02 33	35.02 46	56.29 238	32.794 254	57.12	
	19	44.235 186	16.68 236	2.745 218	27.35 46	35.48 61 36.09 73	53.91 215	33.048 318 33.366 374	55.55 136	
Juli	29 9	44.421 219 44.640 247	14.32 232 12.00 221	2.963 251	27.81 <sub>58</sub> 28.39 <sub>69</sub>	26.82 13	51.76 <sub>187</sub> 49.89 <sub>154</sub>	33.740 374	54.19 113 53.06 86	
oun	9		A CONTRACTOR OF THE PARTY OF TH	3.214 278	20.39 69	94		The state of the s		
	19	44.887 268	9.79 204	3.492 299	29.08 77	37.66	48.35 117	34.162 460	52.20 58	
	29	45.155 284	7.75 180	3.791 315	29.05 82	38.60	47.18 78	34.622	51.62 29	
Aug.	8	45.439 204	5.95 152	4.100	30.67 84	39.60 105	46.40 38	35.110 508	51.33 -	
	18	45.733	4.43	4.429 228	31.51 84	40.05 108	46.02 4	35.018	51.34 29	
	28	46.032 298	3.26 .79	4.757 326	32.35 81	41.73 110	46.06	36.135 521	51.63 58	
Sept.	7	46.330 293	0.48	5.083 321	33.16 76	42.83 109	46.52 86	36.656 515	52.21 85	
G 341	17	46.623 282	2.08	5.404 311	33.92 68	43.92 106	47.38	27 T7T	53.06	
TO SE	27	46.905 268	2.12	5.715 299	34.60 61	44.98 101	48.65 164	37.673 <sub>483</sub>	54.17	
Okt.	7	47.173 252	2.57 45	0.014	35.21 53	45.99 <sub>96</sub>	50.29 200	38.156	55.51 ven	
	17	47.425 230	3.40 118	6.297 263	35.74 45	46.95 87	52.29 231	38.612 450	57.08 176	
	A.F.	The state of the s				47.82				
Nov.	<sup>27</sup> 6	47.655 205	4.58 148	6.560 240	36.19 38	18 50 //	54.60 260	39.036 383	58.84 <sub>193</sub> 60.77 <sub>208</sub>	
.1101.	16	47.860 176	6.06	6.800 213	36.57 33	40.59 65	57.20 282	39.419 335	62.85 217	
	26	48.036 145 48.181 110	7.76 186	7.013 181	36.90 29	49.24 51 249.75 37	60.02 300 63.02 309	39·754 <sub>279</sub> 40.033 <sub>216</sub>	65.02 217	
Dez.	5	30 48 20T	17.55 193	7.194 146	37·19 25 37·44 24	CO T2	66.11 310	40.249	67.24 223	
A Second	3	/2	11.55 193	7.340 106	100000000000000000000000000000000000000	20	310	- CASE - 500 C		
	15	48.363 32	13.48 185	7.446 64	37.68	50.32 4	69.21 302	40.396 73	69.47 216	
	25	48.395	15.33 172	7.510 20	37.89 20	50.36 -	72.23 286	40.469 4	71.63 203	
18	35	48.386	17.05	7.530	38.09	50.22	75.09	40.465	73.66	
Mittl	. Ort	45.095	22.74	3.601	25.28	39.83	55.08	34.732	55.91	
	tg δ	1.032	-0.257	1.085	+0.422	4.090	+3.966	1.820	+1.520	
	a'	+2.8	+7.2	+3.6	+6.9	+8.1	+6.7	+5.0	+6.6	
	b'	-0.01	-0.93	+0.01	-0.94	+0.09	-o.94	+0.03	-0.94	
3 6 300		Part Contract	E STATE OF THE STA	103 2000	The state of the state of	THE RESERVE OF THE PARTY OF THE	30 3 3 6 3	T0+ 45	10 m 2 m	

E\* 47

-	- 5	178) a Car	melopard.	180) π <sup>5</sup>	Orionis	181) ı A	urigae	183) & Aurigae	
Ta	eg .	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
-							- 10		_
194	17	4 <sup>h</sup> 48 <sup>m</sup>	+66° 15′	4 <sup>h</sup> 51 <sup>m</sup>	+2°21'	4 <sup>h</sup> 53 <sup>m</sup>	+33° 5′	4 <sup>h</sup> 58 <sup>m</sup>	+43° 44′
Jan.	0	46.94 10	28.84 238	29.529	19.37 80	32.477	7.24 75	9.950	55.04 133
	10	46.84	31.22 210	00 500	TR 18	22 175 -	1.00	0.044	56.37 119
	20	16.65	33.32	29.522 48 29.474 86	17.70 66	22 422	8.65	9.879 118	57.56 100
	30	46.36 36	35.08	29.388	17.04 52	32.324	9.20	9.761 165	58.56
Febr.	9	46.00 42	36.43 89	29.269 146	16.52 37	32.185 170	9.60 23	9.596 203	59-33 <sub>51</sub>
	19	45.58 46	37.32 40	29.123 162	16.15 23	32.015 192	9.83 6	9.393 227	59.84 22
März	I	45.12	37.72	28.961	15.92 8	31.823	9.89 =	9.166	60.06 -
	II	44.66	37.62	28.791	15.84 -	31.622 108	9.77 29	0.927 226	60.00
	21	44.20	37.05	28.622	15.91	31.424 182	9.48	8.691	59.65 60
	31	43.78 36	36.03 142	28.408	16.14 40	31.241 156	9.04 56	8.472 188	59.05 82
April	10	43.42 29	34.61	28.335 103	16.54 56	31.085 119	8.48	8.284	58.23 100
	20	43.13 20	32.07	28.232 66	17.10 74	30.966 76	7.04 40	0.130 08	57.23 112
Mo:	30	42.93	30.00	28.166 26	17.84 90	30.890 26	7.16 68	8.038 41	56.11 119
Mai	10	42.82	28.72	28.140 18	18.74 107	30.864 =	6.48 64	7.997 18	54.92
	20	42.82	20.40 224	28.158 63	19.81	30.891 79	· 5.84 56	8.015 78	53.72
100	30	42.93 20	24.24 217	28.221 106	21.02	30.970	5.28 46	8.093	52.56 108
Juni	9	43.13 31	22.07	28.327	22.37 746	31.100 179	4.02 22	0.231 102	51.48 95
	19	43.44 39	20.04	28.473	23.83	31.279 222	4.49 18	8.424 244	50.53 80
T1:	29	43.44 39 43.83 47	18.21	28.050	25.35 156	31.501 260	4.31 4	8.668 288	49.73 62
Juli	9	44.30 54	16.63 129	28.872 243	26.91 155	31.761 293	4.27 11	8.956 326	49.11
	19	44.84 59	15.34 96	29.115 265	28.46 149	32.054 317	4.38 25	9.282 356	48.68
	29	45.45 6-	14.38 63	20.380	29.95 138	32.3/1 336	4.03	1 0.038	48.45
Aug.	8	40.00	13.75 28	29.661	31.33	32.707 248	5.00	10.017 306	48.41
	18	40.73 68	13.47 8	29.952	32.56	33.055 355	5.41	10.413	48.56
	28	47.41 <sub>69</sub>	13.55 43	30.248 298	33.59 81	33.410	0.04 64	10.817 408	48.89 50
Sept.	7	48.10 69	13.98 77	30.546	34.40 55	33.767 354	6.68 68	11.225 406	49.39 65
	17	48.70	14.75	30.841 287	34.95 27	34.121 346	7.36 8.08 72	11.031 398	50.04 79
01.4	27	49.40 60	15.87	31.128	35.22	34.407 226	8.08	12.029 387	50.83
Okt.	7	50.11	17.30	31.405 264	35.22 26	34.803	8.83	12.416 369	51.76
	17	50.72 56	19.02	31.669 246	34.96	35.123 300	9.00 78	12.785 369 348	52.80
	27	51.28	21.02 223	31.915 225	34.45 71	35.423 277	10.38 80	13.133 320	53.96
Nov.	6	51.79	23.25	32.140	33.74 87	35.700 248	11.18 0.	13.453 287	55.21
	16	52.24 26	25.00 250	32.340	32.87	35.948	II.99 00	13.740 247	50.55
. Na	26	52.00	20.27 267	32.512	31.89	36.162	12.82	13.987	57.96 146
Dez.	5*)	4 52.88 28	30.94 269	4 32.651 102	30.84 106	5 36.337 132	13.66 84	14.188	59.42
	15	53.06 8	33.63 263	32.753 63	29.78 103	36.469 84	14.50 82	14.339 94	60.90
	25	53.14 -3	36.26	32.816	28.75 g6	36.553 22	15.32 78	14.433 35	02.35 138
	35	53.11	38.76	32.838	27.79	36.586	16.10	14.468	63.73
Mittl		45.90	20.37	29.283	19.67	32.263	2.82	9.622	49.30
sec δ,		2.484	+2.273	1.001	+0.041	1.194	+0.651	1.384	+0.957
a,		+6.0	+6.1	+3.1	+5.9	+3.9	+5.7	+-4-3	+5.3
<i>b</i> ,	b'	+0.05	-o.95	0.00	<b>-0.</b> 96	-+0.01	-0.96	+0.02	-o.96

<sup>\*)</sup> Bei Stern 183) lies Dez. 6.

m.	101	182) β Car	nelopard.	184) ı	Tauri	185) η A	urigae	186) ε I	eporis
Ta	8	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
194	47	4 <sup>h</sup> 58 <sup>m</sup>	+60° 21'	4 <sup>h</sup> 59 <sup>m</sup>	+21° 30′	5 <sup>h</sup> 2 <sup>m</sup>	+41° 9′	5 <sup>h</sup> 3 <sup>m</sup>	-22° 26′
Jan.	0	42.35	70.34 216	55.664	60.57 11	47.899	59.12	13.538 26	20.54
our.	10	42.31	72.50 194	$\frac{55.671}{55.671} = \frac{7}{39}$	60.68	17 002 -	60.00	T2 FT2	30.54 205
	20	12 T8 13	74.44 164	FF 622	60.79	47.847 55	6T 4T	13.441 110	32.59 <sub>179</sub> 34.38 <sub>149</sub>
1	30	41.08	76.08	55.55 <sup>1</sup> 119	60.88	47.740 153	62 22	13.331 145	25 84
Febr.	9	41.95 27		55.33~ 119	60.02	47.587 190	6000	13.186	27 02
1 001.	9	41.71 33	- 10, -10, -10	55-432 149			40		19
WE R	19	41.38 35	78.24 45	55.283 169	60.95	47.397 215	63.53 23	13.013	37.81 43
März	Ί	41.03	78.69	55.114 179	60.91	47.182 227	63.76	12.822	38.24
	II	40.66	78.69 44	54.935 178	60.81	46.955 226	63.72	12.621	38.29 33
	21	40.30 34	78.25 84	54.757 166	60.67	46.729 210	63.43 52	12.421 188	37.96 69
	31	39.96 30	77.41 120	54.591 142	60.49 19	46.519 183	62.91 73	12.233 169	37.27 105
April	10	39.66	76.21 151	54.449 110	60.30 18	46.336 144	62.18 88	12.064	36.22
	20	39.42 17	74.70	54.339 72	60.12	40.192 06	61.30	11.925 103	34.85 160
	30	39.25	72.97	54.267 28	59.90 n	46.096 43	60.31 106	11.822 63	33.16 196
Mai	10	39.16	71.07	54.239 -	59.89	46.053	59.25 106	11.759 18	31.20
	20	39.16	69.08 199	54.258 67	59.89 10	46.067 73	58.19 103	11.741 = 28	28.99 240
	30	39-25 16	67.09	54.325 114	59.99 21	46.140 129	57.16 94	11.769 73	26.59 254
Juni	9	39.41	05.10 181	54.439 158	60.20	46.269	56.22 83	11.842 116	24.05 262
	19	39.66	63.35 *64	54-597	60.52	46.451	55.39 69	11.958	21.42 265
	29	39.98 38	61.71	54.794 222	60.52 44 60.96 54	46.683	54.70 52	12.115	18.77 260
Juli	9	40.36 44	60.29 116	55.026 261	61.50 62	46.957 311	54.18 35	12.310 226	16.17 248
	19	40.80	59.13 88	. 55.287 285	62.12 69	47.268 342	53.83 18	12.536	13.69 228
	29	41.29 52	58.25 59	55.572	62.81	47.610 363	53.65	12.788	11.41 202
Aug.	8	41.01	57.66 28	55.874 214	I D2.52	47.973 370	53.65	13.062 289	9.38 160
	18	42.36 55	57.38 -	1 50.100 221	04.20	48.352 280	53.82	13.351 299	7.09 120
	28	42.93 57	57.40 34	56.509 324	64.97 66	48.741 393	54.15 46	13.650 304	6.39 87
Sept.	7	43.50 57	57.74 63	56.833 321	65.63 60	49.134 392	54.61 60	13.954 303	5.52 41
	17	1 44.07	58.37 93	57.154 316	66 22	49.526 386	55.21 71	14.257 207	5.11 8
	27	44.64 54	59.30 121	57.470 306	1 66.75	49.912 375	55.92 82	14.554 288	5.19 56
Okt.	7	45.18 52	60.51	57.776	07.10	50.287 250	56.74 92	14.842	5.75 102
	17	45.70 49	61.97	58.068 277	67.52 26	50.646 339	57.66	15.114 254	6.77 143
	27.	46.19	63.68	58.345 256	67.78 19	50.985 314	58.68 109	15.368 229	8.20 179
Nov.	6	40.03	05.60	58.60I	67.97	51.299 282	59.77	15.597	9.99 208
	16	47.02 39	67.71 225	58.832 201	68.11	51.581 246	60.95	15.798 160	12.07 227
	26	47.35 27	69.96 235	59.033 167	68.23	51.827 202	02.19 128	15.967	14.34 220
Dez.	6	47.62 18	72.31 238	59.200 127	68.32	52.029 153	63.47 130	16.098 .91	16.73 240
	15	47.80 10	74.69 236	7 70 227	68.41 <sub>10</sub>	F2.182	64.77 129	16.189 48	19.13 233
	25	47.90 2	77.05 236	CO ATT	68.51	52.281 99	66.06	16.237	21.46 219
	35	47.92	79.30	59.451	68.62	52.323	67.31	16.240	23.65
Mit+1	L Ort	4T CO	62.82	55.463	57.85	47.588	53.82	12.958	27.27
	tg δ	2.023	+1.758	1.075	+0.394	1.328	+0.874	1.082	-0.413
	a'	+5.3	+5.3	+3.6	+5.2	+4.2	+5.0	+2.5	+4.9
	b'	+0.03	<b>-0.96</b>	+0.01	-0.97	+0.01	_o.97	-0.01	-o.97
1505312		W. 1000	The state of the s	- 10 10 20 20 20	DE STANDA	TO COMPANY OF	10000		

Ta	g	· 188) β I	Eridani	192) µ A	urigae	194) β	Orionis	193) a A	urigae
16-11		AR.	Dekl.	AR.	Dekl.	AR.	DekL	AR.	Dekl.
19	47	5 <sup>h</sup> 5 <sup>m</sup>	−5° 8′	5 <sup>h</sup> 9 <sup>m</sup>	+38° 25′	5 <sup>h</sup> 11 <sup>m</sup>	−8° 15′	5 <sup>h</sup> 12 <sup>m</sup>	+45° 56′
Jan.	0	14.868	73.30 131	48.135	30.19 106	59.741	42.19 148	46.589 10	52.65 147
	10	14.866	74.61	48.148 =	31.25 97	59.742 -	43.07	46.599 =	54.12
	20	14.822	75.75 06	48.106	32.22 84	59.699 82	44.97	46.548	55.46 116
	30	14.738	76.71 76	48.011	33.06 67	59.617 117	46.00 87	46.438 162	56.62
Febr.	9	14.620	77.47 54	47.870	33.73 46	59.500 147	46.93 62	46.276 204	57-56 67
	19	14.475 165	78.01 32	47.693 203	34.19 25	59 353 166	47.55 37	46.072	58.23
März	Ι	14.310	78.33	47.490	34.44 i	59.187 178	47.92	45.039	58.60 7
	II	14.135	78.42	47.273	34.45 =	59.009 778	48.03 =	45.590	58.67 =
	21	13.901	78.28	47.056	34.23 42	58.831 169	47.89 40	45.341	58.43
	31	13.797 144	77.92 58	46.852 178	33.81 61	58.662	47.49 65	45.100 206	57-91 77
April	10	13.653	77.34 81	46.674 142	33.20 75	58.512 123	46.84 89	44.900 167	57.14 99
1	20	13.536 82	76.53 102	40.532	32.45 85	58.389 80	45.95	44.733	56.15
	30	13.454 42	75.51 122	46.435 47	31.60 gr	58.300	44.83	44.615 61	55.00 125
Mai	10	13.412	74.29 141	$46.388 \frac{17}{8}$	30.69 92	58.250 8	43.49	44·554 <sub>1</sub>	53.75 130
	20	13.412	72.88 158	46.396 63	29.77 88	58.242 = 35	41.95 172	44·553 61	52.45 129
	30	13.456 87	71.30	46.459 118	28.89 80	58.277 78	40.23 186	44.614 123	51.16
Juni	9	13.543 128	109.50 -8-	46.577	28.09	58-355	38.37	44.737	49.91
	19	13.671 766	07.77 .86	40.747	27.39 57	58.474 108	36.42	44.917 234	48.77 tor
	29	13.837	65.91 ,88	46.964 260	26.82	58.632	34.42	45.151 281	47.76 85
Juli	9	14.030 228	64.03 183	47.224 295	26.39 28	58.824 221	32.41 195	45.432 323	46.91 67
	19	14.264 251	62.20	47.519 324	26.11 12	59.045 246	30.46	45.755 356	46.24 48
	29	14.515	100.47	47.843	25.99 -	59.291 265	28.62	40.111	45.76 28
Aug.	8	14.785	50.09 126	40.190	26.02	59.556 280	20.90	40.493	45.48 8
Sub-	18	15.068	57.53 III	40.555	26.20	59.830 200	25.53 116	46.895	45.40
	28	15.350 294	56.42 81	40.92/ 379	26.50 41	60.124 294	24.37 83	47.310 422	45.50 29
Sept.	7	15.652 293	55.61 49	49.306	26.91 52	60.418	23.54 48	47.732 422	45.79 46
	17	15.945 288	55.12 15	49.004 274	27.43 6T	00.711	23.00 11	48.154	46.25 62
dan.	27	16.233 280	54.97 =	50.050 265	28.04 69	01.001	22.95 -	48.572	46.87 78
Okt.	7	16.513 267	55.17 53	50.423	28.73 77	01.283	23.21 62	48.980	47.65 93
	17	16.780 251	55.70 83	50.774 333	29.50 85	01.553 256	23.83 94	49.374 373	48.58 107
415, 30	27	17.031 232	56.53 109	51.107 309	30.35 gr	61.809 235	24.77 123	49.747 347	49.65
Nov.	6	17.203	57.62	51.410 281	31.26	02.044	20.00	50.094 314	50.86
	16	17.4700	58.91	51.697 246	32.24	62.255	27.40 161	50.094 314 50.408 274	52.10
T	26	17.048	00.35	51.943	33.28	62.438	29.07 171	50.002	53.60
Dez.	6	17.794 <sub>109</sub>	01.87	52.147 158	34.36 112	62.589 113	30.78	50.910 175	55.10
	15	17.903 69	63.41 149	52.305 106	35.48 112	62.702 72	32.51 168	51.085 116	56.64 155
	25	17.972 27	04.90	52.411 52	36.60	62.774 20	34.19 158	51.201	58.19 151
Sales .	35	17.999	66.30	52.463	37.69	62.804	35.77	51.256	59-70
Mittl		14.526	72.34	47.831	25-37	59.351	41.09	46.176	47.08
	, tg δ	1.004	-0.090	1.276	+0.793	1.010	-o.145	1.438	+1.034
	a'	+3.0	+4.7	+4.1	+4.4	+2.9	+4.2	+4.4	+4.1
<i>b</i> ,	b'	0.00	-o.97	+0.01	<b>−0.98</b>	0.00	<b>−0.98</b>	+0.01	<b>-0.98</b>

Ta		191) 19 H.	Camelop.	196) & I	Ooradus	201) γ (	Prionis	202) β	Tauri
14	lg	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
19	47	5 <sup>h</sup> 13 <sup>m</sup>	+79° 10′	5 <sup>h</sup> 13 <sup>m</sup>	-67°14′	5 <sup>h</sup> 22 <sup>m</sup>	+6°18′	5 <sup>h</sup> 22 <sup>m</sup>	+28° 33′
Jan.	0	50.43	38.97 297	50.87 26	47.80 <sub>294</sub>	17.475 22	12.75 76	56.611	56.04 51
	10	50.23 42	41.94	50.61	50.74 259	$17.497 \frac{22}{23}$	11.99 66	$56.641 \frac{30}{21}$	56.55 49
	20	49.81 62	44.07	50.25	53.33 214	17.474 65	11.33 55	56.620 69	57.04
	30	49.19 70	47.04 194	49.81	55.47 164	17.409	10.78 43	56.551 112	57.49
Febr.	9	48.40	48.98	49.31 56	57.11	17.307 134	10.35	56.438 148	57.86 28
	19	47.48 101	50.42 88	48.75	58.22 56	17.173 156	10.03 20	56.290 174	58.14 17
März	I	46.47 107	51.30 31	48.10 60	58.78	17.017	9.83	56.116 189	58.31 4
	II	45.40 105	51.61 = 27	47.56 6	58.77	16.847	$9.74 - \frac{3}{2}$	55.927 192	58.35 -8
	21	44.35 100	51.34 82	46.95	58.22 108	10.075	9.76	. 55.735 182	58.27
	31	43·35 <sub>91</sub>	50.52 133	46.37 55	57.14 159	16.511 146	9.90	55·55 <sup>2</sup> 163	58.07 29
April	10	42.44 77	49.19 177	45.82 49	55-55 205	16.365 120	10.15 39	55.389 133	57.78 36
	20	41.67 61	47.42 214	45.33	53.50 247	16.245 86	10.54 52	55.256 94	57.42
	. 30	41.06	45.28	44.91 34	5I.03	16.159 48	11.06 65	55.162 50	57.01
Mai	10	40.65	42.86	· 44·57 <sub>26</sub>	48.20	16.111 6	11.71 79	55.112 2	50.00 28
	20	40.44	40.26 270	44.3I <sub>17</sub>	45.08 336	16.105 38	12.50 92	55.110 - 48	56.22 34
	30	40.44	37.56 271	44.14 6	41.72 350	16.143 81	13.42 103	55.158 96	55.88 27
Juni	9	40.66	34.85 264	44.08 -	1 30.22	16.224	14.45	55.254 143	55.61 18
	19	41.09 62	32.21 248	44.11 3	34.65 357 354	16.346 160	15.59 121	55-397 186	55.43 7
	29	41.71 80	29.73 226	44.24	1.51.11 242	16.506	16.80	55.583 224	55.36 -
Juli	9	42.51 96	27.47 199	44.46 31	27.69 342	16.700 224	18.06 126	55.807 257	55-39 12
	19	43.47 110	25.48 166	44-77 39	24.47 291	16.924 249	19.32 123	56.064 285	55.51 22
	29	44.57 121	23.82	45.16	21.56	17.173 268	20.55	56.349 206	55.73 28
Aug.	8	45.78	22.51	45.62	19.04 204	17.441 282	21.70	50.055 322	56.01 35
	18	47.08	21.60	40.14 -6	17.00	17.723	22.74 88	50.977 333	50.30 20
	28	48.45	21.09 8	46.70 59	15.50 90	18.015 298	23.62 68	57.310 340	56.75 40
Sept.	7	49.86	21.01	47.29 60	14.60 27	18.313 299	24.30 47	57.650 341	57.15 40
	17	51.28	21.35 34	47.89 59	14.33 38	18.612	24.77	57.991 330	57.55 40
(2000)	27	52.69 128	22.12		14.71 102	18.909	25.01	58.330 333	57.95 30
Okt.	7	54.07	23.31	49.05	15.74 -64	19.200	25.01 23	58.663	58.34 37
	17	55.39 123	24.89 197	49.58 47	17.38 220	19.482 269	24.78 45	58.986 309	58.71 36
	27	56.62	26.86	50.05 40	19.58 267	19.751 252	24.33 62	59.295 290	59.07 37
Nov.	6	57.73 97	29.17 -6-	50.45 31	22.25 305	20.003	23.71	59.585 -66	59.44 27
	16	58.70 81	31.78 287	50.76 22	25.30 332 28.62 346	20.233 201	22.94 87	59.851 236	59.81
	26	59.51 61	34.05 200	50.98 12	28.62 346	20.437 172	22.07 gi	59.851 <sub>236</sub> 60.087 <sub>201</sub>	60.21
Dez.	6	60.12	37.70 314	51.10 2	28.62 346 32.08 347	20.609 135	21.16 93	00.288 160	60.63 46
	15	60.53 18	to the same of the same of	51.12	35.55 228	20.744 96	20.23 89	60.448	61.09 48
	25	60.71 -	40.84 316 44.00 308		38.93	20.840	19.34 83	60.563 64	61.57 50
- Second	35	60.67	44.00 308	50.82	42.08 313	20.892	18.51	60.627	62.07
Mitt	l. Ort	46.91	30.86	47.48	42.05	17.183	11.80	56.337	52.58
	s, tg δ	5.325	+5.230	2.585	-2.384	1.006	+0.110	1.139	+0.544
	, a'	+9.9	+4.0	0.0	+4.0	+3.2	+3.3	+3.8	+3.2
	b'	+0.07	-o.98	-0.03	-o.98	0,00	-0.99	10.0+	-0.99

Та		203) 17 Cai	nelopard.	206) 8 C	rionis	207) α L	eporis	205) Gib 9	66 Caml
14	6	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
194	17	5 <sup>h</sup> 25 <sup>m</sup>	+63° 1′	5 <sup>h</sup> 29 <sup>m</sup>	-0° 19′	5 <sup>h</sup> 30 <sup>m</sup>	—17° 51′	5 <sup>h</sup> 32 <sup>m</sup>	+75° o'
Jan.	0	10.44	39.70 236	18.174	71.89 114	24.023	33.03 200	39.93	53.27 288
	10	10.44	42.06	$18.197 \frac{23}{21}$	73.03 100	$24.028 \frac{5}{41}$	35.03 179	39.88 21	56.15 260
	20	10.35 19	44.25 193	18.176 64	74.03 85	23.987 82	36.82	39.67 37	58.84 240
	30	10.10	46.18 161	18.112	74.88 67	23.904 122	38.34	39.30 50	61.24 202
Febr.	9	9.89 33	47.79 122	18.011	75.55 50	23.782	39.56	38.80 62	63.26
	19	0.56	49.01	17.878	76.05	23.628 176	40.47	38.18	64.83 107
März	I	0.10	10.80	17.721 170	76 26 31	23.452	AT 04 5/	27.40	1 05 00
	II	8 +8 41	COTA ST	17.551 174	76 50	22 2hT	41.27	26.74	66.42
	21	8.37	CO OT	17.377 167	76 45	23.067 194	4T.T6	35.00	66 20
	31	7.08 39	49.44 98	17.210	76.22 40	22.879 171	40.72	35.26 67	65.83 106
A	200	33	90		40		17	-	
April	10	7.63 29	48.46	17.058 126	75.82 59	22.708 146	39.95 108	34.59 58	64.77 151
	20	7.34 23	47.11 163	16.932 94	75.23 77	22.562	38.87 138	34.01 46	63.26 189
Mai	30	7.11	45.48 186	16.838 56	74.46 94	22.447 77	37.49 164	33.55	61.37 219
Mai	20	6.96 6	43.62 202	$16.782$ $16.767$ $\frac{15}{26}$	73.52	22.370 35	35.85 188	33.22	59.18 242
	20	T	210	20	72.42 126	22.335 -8	33.97 209	33.03 4	56.76 254
	30	6.94 12	39.50 210	16.793 69	71.16	22.343 51	31.88 225	32.99 12	54.22 258
Juni	9	7.06	37.40 203	16.862	! 69.78	22.394 94	29.03 226	33.11 28	51.64 256
	19	7.27	35.37 102	16.972	08.30	22.488	27.27 241	33.39 42	49.08
	29	7.50	33.45 175	17.121 182	100.740	22.622	24.80	33.81	46.63
Juli	9	7:93 44	31.70 152	17.304 212	65.16	22.793 203	22.47 231	34.36 67	44.36 205
	19	8.37	30.18 128	17.516 238	63.61	22.996	20.16	35.03 78	42.31 176
	29		28.90	17.754 259	62.12 138	23.227	17.99 195	25 8T	100 55
Aug.	. 8	9.39 58	27 00	18.013	60.74	23.481 273	16.04 167	26.68	39.10
	18	9.97 60	27.10	18.287	50.52	23.754 285	14.37 133	27 62 93	37.00
	28	10.57 61	26.80 39	18.572 292	58.54 75	24.039 294	13.04 94	38.62	37.26 73
Sept.	7	11.18 63	26.72	18.864 294	57-70	24.333 298	12.10	39.66	36.02
	17	11.81 62	26.05	19.158 294	E7 22 T/	24.03I	11.60 6	40.71 105	26.07
	27	12.43	27.49 86	19.452 288	57.T5 -	24.928 291	TT.54 -	AT 76	27 42 43
Okt.	7	13.04	28.35 116	19.740 281	57.28	25.219 282	11.94 84	42.80	28.27
	17	13.63 59	29.51	20.021 268	57.71 69	25.501 268	12.78	43.81 95	39.51 161
	27				58.40		14.02	14.76	AT TO
Nov.	6	14.19 52 14.71 47	30.95 172	20.289 <sub>251</sub> 20.540 <sub>230</sub>		25.769 26.018 225	15.61 189	45.64 79	41.12
2,0,1	16	15.18 47	32.67 196 34.63 216	20.770 204	59·33 112 60.45 125	26.243 196	1 77 70	46.43 67	43.09 228
	26	15.59 33	36.79 232	20.974	61.70	26.439. 161	19.60 223	47.10	45.37 256
Dez.	6	15.92 33	39.11 242	21.147 136	63.02	26.600 123	21.83 227	47.65 55	47.93 <sub>277</sub> 50.70 <sub>291</sub>
		13		14		114		1 15	100000
	15	16.18 16	41.53 246	21.283 97	64.36	26.723 81	24.10 223	48.04	53.61 298
	25	16.34 6	43.99 241	21.380	65.66	26.804	26.33	48.28	56.59 293
	35	16.40	46.40	21.433	66.89	26.839	28.45	48.35	59.52
Mittl	l. Ort	9.40	33.12	17.826	72.29	23.470	31.81	37.44	46.37
	i, tg 8	2.205	+1.965	1.000	-0.006	1.051	-0.322	3.867	+3.735
	a'	+5.7	+3.0	+3.1	+2.7	+2.6	+2.6	+8.0	+2.4
	b'	+0.02	-0.99	0.00	-0.99	0.00	-0.99	+0.03	-0.99

ALC:	100	209) ι 0	rionis	212) β D	oradus	210) ε (	rionis	211) ζ	Tauri
Ta	ıg -	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
			-						2011
194	17	5 <sup>h</sup> 32 <sup>m</sup>	-5° 56′	5 <sup>h</sup> 33 <sup>m</sup>	-62° 31'	5 <sup>h</sup> 33 <sup>m</sup>	-1° 13'	5 <sup>h</sup> 34 <sup>m</sup>	+21° 6′
Jan.	0	50.726	05,01	T2 42	20.75	31.708	62.60	28.787	45.04
Jan.	10	50.736	35.21 144	12.43 <sub>17</sub> 12.26 <sub>25</sub>	30.75 312	07 H00 -	62 80 120	28.827	45.94 6
	20	50.757 = 24 50.733 66	36.65 129	12.01 25	33.87 279	$31.733 \overline{18}$ $31.715 6$	64.86	28.818	46.00 11 46.11 12
	30	50.667	37.94 <sub>109</sub> 39.03 <sub>87</sub>	11.69 32	36.66 279	31.654 <sub>100</sub>	65.76	28 762 55	46.23 12
Febr.	9	50.563 136	20.00	11.31 44	39.04 <sub>192</sub> 40.96 <sub>141</sub>	31.554 132	66 47	28 665	46.35 12
1001.	9		39.90 65				23	-55	
1	19	50.427	40.55	10.87 48	42.37 86	31.422 156	67.00	28.532 160	46.47 8
März	I	50.208	40.96 18	10.39	43.23 32	31.266	67.34 15	28.372 176	46.55 3
	II	50.094 178	41.14 -6	9.90 50	43.55 =	31.096	67.49 4	28.196 181	46.58
	21	49.916	41.08 28	9.40	43.32 77	30.922 169	67.45 23	28.015	46.58
	31	49.744 156	40.80 52	8.91 46	42.55 128	30.753 153	67.22	27.840	46.54 7
April	10	49.588	40.28	8.45 42	41.27	30.600	66.80 <sub>61</sub>	27.683 131	46.47 8
1	20	10 150	20 52 /5	8.03	39.50 221	20.471	66.10	27.552 96	16.20
	30	10 256	38.57 117	7.66 37	37.29 260	30.374 60	65.40 79	27.456 56	46.32 7
Mai	10	40 202	27 40	7.36 30	34.69 294	30.314 20	64.44	27.400 12	46.28
	20	$49.292 \frac{24}{19}$	36.04 136	7.12	31.75 320	30.294 =	63.30 114	27.388 = 34	46.29 7
	A F N	1000	and the party of					March and the second	The second second
T	30	49.287 62	34.51 166	6.97 7	28.55 339	30.316 65	62.01	27.422 80	46.36
Juni	9	49-349 102	32.85 177	6.90 -	25.10 350	30.381 105 30.486 144	60.59 152	27.502 <sub>124</sub> 27.626 <sub>165</sub>	46.51 24
	19	49.451 140	31.08 184	6.91 9	21.66 352	30.400 144	59.07 158		46.75 32
Juli	29	49.591 176	29.24 184	7.00 17	18.14 35 <sup>2</sup> 14.68 346	30.630 179 30.809 208	57.49 161	27.791 202	47.46 45
Jun	9	49.767 206	27.40 181	7.17 24	14.00 328	30.009 208	55.88 159	27.993 233	42
	19	49.973 232	25.59 172	7.41 32	11.40 303	31.017 235	54.29 152	28.226 260	47.91 49
	29	50.205 254	23.87	7.73 37	8.37 267	31.232 255	52.77 140	28.486	48.40 51
Aug.	8	50.459 270	22.30 126	8.10	5.70 223	31.507	51.37 122	28.768	40.91
	18	50.729 282	20.94	8.53 46	3.47	31.779 282	50.15 101	29.007	49.42. 48
	28	51.011 289	19.83 81	8.99 50	1.76	32.062 290	49.14 75	29-377 318	49.90 42
Sept.	-	Access to the second	70.00		0.60	32.352 294	48.39 47	29.695 321	50.32 35
Dept.	7 17	51.300 293	TR F4 40	9.49 51 10.00 51	0.10	1 32.646	47 00	30.016 321	50.67 35
	27	51.593 <sub>292</sub> 51.885 <sub>288</sub>	T8 4T -	10.51 50	0 24 14	32.040 <sub>294</sub> 32.940 <sub>289</sub>	17 76 -	30.337 317	50.94 18
Okt.	7	52.173 281	TR 62		1.03 142	33.229 282	47.70 15 47.91 46	30.654 310	51.12
	17	52.454 267	TOTO	11.49 48	2.45 200	33.511 270	18 27	30.964 298	51.21 2
			00				,,,		
	27	52.721 251	20.07	11.92 38	4.45 251	33.781 <sub>253</sub>	49.10 98	31.262 281	51.23 4
Nov.	6	52.972	2T.24	12.30 38	6.96 294	34.034 233	50.08 117	31.543 261	51.19 8
	16	53.202 203	22.02	12.02	9.90 324	34.267 207	51.25 130	31.804 234	51.11 9
D.	26	53.405 172	104	12.07 16	13.14 344	34.474 176	52.55 139	32.038 <sub>201</sub>	51.02 8
Dez.	6	53-577 135	25.80 167	13.03 7	9.90 324 13.14 344 16.58 352	34.650 140	53-94 141	32.239 163	3
	15	53.712	27.47 163	13.10 2	20.10 346	34.790 100	55.35 136	32.402 120	50.89 1
	25	F2 806	20 TO	13.08 11	23.56 329 26.85	34.890 56		32.522 32.596 74	50.88 -
	35	53.858	30.64	12.97	26.85	34.890 <sub>56</sub> 34.946	58.00	32.596	50.91
3.51		50.82		ALL TO STATE		Carrier Charles		28 506	12.22
	tl. Ort	50.332	35.18	9.71	27.16	31.346	63.04 —0.022	28.506	43·3 <sup>2</sup> +0.386
	$\delta$ , $\operatorname{tg} \delta$	1.005	-0.104	2.167	-1.923	1.000 +3.0	-0.022	+3.6	+2.2
	, a'	+2.9	+2.4	+0.5	+2.3	0.00		0,00	-0.99
D.	, b'	0.00	-o.99	-0.02	-0.99	1 0.00	2.33		

215) α Columbae				216) a A	unima	270) 7 T	onoria	220) × Orionis	
Ta	g -	AR.	Dekl.	AR.	Dekl.	219) ζ I AR.	Dekl	AR.	Dekl.
-									
194	7	5 <sup>h</sup> 37 <sup>m</sup>	-34° 5′	5 <sup>h</sup> 41 <sup>m</sup>	+49° 48′	5 <sup>h</sup> 44 <sup>m</sup>	-14° 50′	5 <sup>h</sup> 45 <sup>m</sup>	-9° 40′
Jan.	0	44.618	66.30 266	48.071	24.58 173	33.678	25.60 193	14.952 28	73.13 <sub>168</sub>
200	10	44 500	68.96 238	$48.119 \frac{48}{22}$	26.31 164	22.600 -	27.53	T4 080 =	74.81
	20	44.539 69	71.34 206	48.097 89	27.95 150	33.674 68	29.26	14.963 61	76.31 129
	30	44.413 160	73.40 167	48.008 150	29.45 129	33.606 108	30.75	14.902	77.60 105
Febr.	9	44.253	75.07 125	47.858 202	30.74 102	33.498	31.97 92	14.801	78.65 80
	19	44.059 221	76 22	47.656 241	21.76	33.356 167	22.80	14.667 160	70.45
März	I	43.838 236	77.13 36	47.415 264	22 18	33.189 184	22 50	14.507 176	79.97 26
	II	43.602 241	77.40	47.151	22.88	33.005 189	22.80	14.331 182	80.23 -
	21	43.361 234	77.40	46.878 265	22.02	32.816	22 70	14.149 178	80.22
	31	43.127 219	76.86	46.613 243	32.93 <sub>28</sub> 32.65 <sub>60</sub>	32.631 171	33.46 <sub>63</sub>	13.971 164	79.94 55
April	10		97	46.370 207			32.83	13.807	33
1xpiii	20	42.908 <sub>193</sub> 42.715 <sub>159</sub>	75.89 <sub>138</sub> 74.51 <sub>176</sub>	46.163 159	32.05 <sub>86</sub> 31.19 <sub>110</sub>	32.460 32.311	31.90 93	13.665 112	79.39 79 78.60
	30		72.75 211	46.004 104	30.09 110	20 TO2	30.70	T2.552	22 -6
Mai	10	12.126	70.64 240	15 000	28.81	22.TTO	29.24	T2 486	76.29 148
- W- 1-	20	42 26T	68.24 265	4 E 8 E 8 =	27.41 146	22 067 43	27.54 189	T2 420 =	74.81 166
				ricari di Tan					
- 1	30	42.334 20	65.59 284	45.880 87	25.95 147	32.066	25.65 206	13.444 46	73.15 181
Juni	9	42.354 68	62.75 206	45.967 149	24.48	32.108 83	23.59	13.490 88	71.34 192
	19	42.422	59.79 300	40.110	23.00	32.191 123	21.42	13.578 126	69.42
T 1.	29	42.537 157	50.79 207	46.324 262	21.71	32.314 159	19.19 224	13.704 162	07.43
Juli	9	42.694 197	53.82 286	46.586 309	20.48 108	32.473 192	16.95 217	13.866	65.44 195
	19	42.891 231	50.96 266	46.895 350	19.40 91	32.665 221	14.78 206	14.060	63.49 185
	29	43.122	48.30 237	41.443 .0.	18.49 72	32.886	12.72 .00	14.281	01.04 160
Aug.	8	43.383 -96	45.93 202	47.029	17.77 52	33.130 262	10.86	1 14.520	1 59.95 146
	18	43.669	43.91 158	48.040	17.25 33	33.393 278	9.25 129	14.788	58.49 118
	28	43.973 316	42.33 110	48.470 444	16.92 12	33.671 289	7.96	15.065 287	57.31 87
Sept.	7	44.289 323	41.23	48.914 452	16.80 8	33.960 294	7.03	15.352 292	56.44
	17	44.012	40.66 57		16.88	34.254 295	6.50 53	15.644 293	55.94 12
	27		40.65 =	49.820 454	T7.T6	34.549 293	6.30	15.937	FF.82 -
Okt.	7	43.430 200	41.20	50.270 440	17.63 68	34.842 206	671	16.228	56.09 64
	17	45.565 291	42.30 161	50.710 423	18.31 87	35.128 274	7.46 75	16.513 274	56.73 100
	27	45.856 268	43.91 205	51.133 401	19.18 106	35.402 259	8.60	16.787 258	57.73 131
Nov.	6	46.124 239	45.96 243	51.534 369	20.24	1 35.00I	10.08	17.045 238	1 50.04
	16	46.363 204	48.39 271	51.903 330	21.48	35.897 209	11.85 198	17.283 238	60.60
	26	46.567 162	51.10 289	52.233 282	22.88 140	36.106	13.83 212	17.405	62.35 187
Dez.	6	46.729 117	53.99 296	52.515 227	24.43 165	36.283 177	15.95 217	17.676	64.22
	16	16.846	100 mm 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The second second	-6-0	36.422			
	25	1646 012	56.95 <sub>293</sub> 59.88 <sub>279</sub>	52.742 164 52.906 06	27.80 172 27.80 174	18 <sub>3</sub> 6.519 97	18.12 <sub>213</sub> 20.25 <sub>204</sub>	17.820 103 17.923 50	68.00
	35	46.929	62.67	52.900 96	29.54	36.572 53	22.29	17.982 59	68.00 179 69.79
						3-31-		27.702	
Mittl		43.693	64.35	47.487	19.68	33.150	25.36	14.490	73.28
sec δ,		1.208	-o.677	1.549	+1.184	1.035	-o.265	1.014	-0.171
a,		+2.2	+1.9	+4.6	+1.6	+2.7	+1.4	+2.8	+1.3
<i>b</i> ,	0	0.00	-1.00	+0.01	-1.00	0.00	-1.00	0.00	-1.00

	31	224) α (	Orionis	225) δ A	urigae	227) β A	urigae	1162) +33°	Tago Auri
Ta	g -	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
						The same of the sa		4 4 777	
194	17	5 <sup>h</sup> 52 <sup>m</sup>	+7° 23′	5 <sup>h</sup> 55 <sup>m</sup>	+54° 16′	5 <sup>h</sup> 55 <sup>m</sup>	+44° 56′	5 <sup>h</sup> 56 <sup>m</sup>	+33°8′
Jan.	0	18.410	57.55	10.453 68	63.93 197	38.900 68	43.58	45.611 67	9.55 77
	10	18.460 3	56.78 66	10.521 =	65.90	38.968	45.05	45.678 67	10.32 78
	20	$18.463 \frac{3}{42}$	56.12	10.510 96	67.80 176	$38.971 \frac{3}{60}$	46.47	$45.690 \frac{12}{43}$	II.IO
	30	18.421 84	55-58 42	10.424	69.56	38.911	47.80 119	45.647 93	11.85 75
Febr.	9	18.337	55.16 30	10.268 215	71.10 126	38.793 169	48.99 98	45.554 135	12.54 59
	TO.		54.86			38.624 208	1 33 3 10 5 1	Contract of the second	
März	19 1	18.218 <sub>146</sub> 18.072 <sub>165</sub>	4- 19	10.053 262	72.36 94 73.30 58	38.416	49.97 50.70	45.419 170	13.13 46
111012	II	17.007	54.67 8	9.791 292	72 88	38.183 245	6 4º	45.249 193 45.056 202	13.59 30 13.89 13
	21	17.907 <sub>173</sub> 17.734 <sub>169</sub>	54.62	9.499 <sub>304</sub> 9.195 <sub>300</sub>	7108		ET 24 -	11801	14.02 = 3
	31	17.565	54.75	8.895 279	72.00	37.93° <sub>241</sub> 37.697 <sub>224</sub>	ET 22	44.655 185	13.99 19
- 1	3-		-3		24	STATE OF THE PARTY	39		Carl Children
April	10	17.408	54.98	8.616	73.36 86	37.473 193	50.83 64	44.470 159	13.80 34
	20	17.274 104	55.32 45	8.373	72.50 115	37.280 152	50.19 84	44.311	
	30	17.170 69	55.77	8.178 136	71.35 138	37.128 104	49.35 102	44.187 82	13.02 53
Mai	10	17.101 29	56.34 68	8.042	69.97	37.024 49	48.33 113	44.105 35	12.49 57
	20	17.072 -	57.02	7.971 2	68.43 165	36.975 = 9	47.20 119	44.070 . 14	11.92 58
	30	17.084	57.81 89	7.969 69	66.78	36.984 67	46.01	44.084 64	11.34 58
Juni	9	17.139 06	58.70	8.038	05.00	37.051 125	44.79 120	44.148	10.76 53
	19	17.235	59.69	0.175 202	03.38	37.170	43.59	44.260 158	10.23
	29	17.370 160	60.74	8.377	61.74	37.355 228	42.44	44.418	9.76
Juli	9	17.539 201	61.83 109	8.640 317	60.21 140	37.583 272	41.39 94	44.618 237	9.36 40
	19		62.92 107	8057	58.81 123	37.855 311	40.45	44.855 269	9.04 24
	29	17.740 <sub>228</sub> 17.968 <sub>251</sub>	63.99 100	8.957 <sub>365</sub> 9.322 <sub>404</sub>	57.58 104	38.166	20 65	45.124 296	8.80
Aug.	8	18.219 268	64.99 88	0.726	1 -6 -4	38.509 369	28 08	1 45 400	8.63 9
	18	18.487 282	65.87	10.163	50.54 8 <sub>3</sub> 55.7 <sup>1</sup> 6 <sub>1</sub>		38.47 36	45.420 317 45.737 334	8.54 3
	28	18.769 292	66.62 75	10.626 463	EE TO	39.267 <sub>404</sub>	38.11 30	46.071 347	$8.51 - \frac{3}{1}$
			50		37			37/	
Sept.	7	19.061 298	67.18 36	11.107 493	54.73	39.671 414	$\begin{vmatrix} 37.90 \\ 37.85 \\ - 0 \end{vmatrix}$	46.418 354 46.772 357	8.52 6 8.58 10
	17	19.359 301	67.54 14	11.000 499	54.58 <del>9</del> 54.67 <sub>24</sub>	40.085 418	37.94 25	47 720 33/	8.68
Okt.	27	19.660 299	67.58	12.099 497	FE OT	40.503 417	28 10	17 187 350	1 001
ORU.	7	19.959 295 20.254 286	67 27 3	T2 086	FF FO	AT 22T	28 60	17 840 333	8.98 17
		*C1.07 ( * /*)	32	4/4		399	3/	343	Carrier and the
	27	20.540 273	66.75	13.560 451	56.40 106	41.730 381	39.17 73	48.183 329	9.20 28
Nov.	6	1 20.813	66.05 82	14.011	57.46 128	42.111 256	39.90 89	48.512 309	9.48 35
	16	21.007	05.23 92	14.429 377	58.74 150	42.111 356 42.467 322	40.79 104	48.821 280	9.03 42
	26	21.290 201	04.31 97	14.429 377 14.806 325	00.24 168	42.709 281	41.83 119	49.101 247	9.83 42 10.25 51 10.76 60
Dez.	6	21.499 166	63.34 96	15.131 264	61.92 182	43.070 231	43.02 130	49.348 205	10.70 60
	16	21.665 126	62.38 92	15.395 196	63.74 192	43.301 175	43.32 140	49.553 158	11.36 68
	25	21.791 81	61.46 85	15.591 191	65.66	43.470	45.72	2149.711 TOF	12.04 73
	35	21.872	60.61 °5	15.712	67.62	43.589	47.16	49.816	12.77
MELLI	0-4	TO 076	EE C.	0.807	f0.20	38.383	39.50	45.241	6.23
	L Ort	18.076	55.97	9.701	59.29 +1.391	1.413	+0.998	1.194	+0.653
	a'	1.008	+0.130	1.713 +4.9	+0.4	+4.4	+0.4	+3.9	+0.3
	b'	+3.2 0.00	+0.7 —1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00
1	20.00			U-70 = Denti	15 GL 18 16 16 16 16 16 16 16 16 16 16 16 16 16	100 00000			

-	2.5	229) η Co	olumbae	232) v C	rionis	1168) × 1	Aurigae	234) 22 H.	Camelon.
Та	g	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
194	47	5 <sup>h</sup> 57 <sup>m</sup>	-42° 48′	6 <sup>h</sup> 4 <sup>m</sup>	+14° 46′	6 <sup>h</sup> II <sup>m</sup>	+29° 31′	6 <sup>h</sup> 12 <sup>m</sup>	+69° 20′
Jan.	0	32.623 19	62.68 <sub>302</sub>	33.003 66	37.66 <sub>36</sub>	60.378 83	13.08 52	62.34	35.40 <sub>269</sub>
	10 20	32.604 78 32.526 78	65.70 <sub>276</sub> 68.46 <sub>242</sub>	$33.069 \frac{18}{33.087} = \frac{18}{30}$	37.30 <sub>27</sub> 37.03 <sub>19</sub>	60.461 29 60.490 26	13.60 57 14.17 59	62.44 - 2 62.42	38.09. <sub>262</sub> 40.71 <sub>246</sub>
	30	32.320 133 182	70.88 203	22.057	36.84	60.464 76	14.76 57	02.27	43.17 219
Febr.	9	32.211 223	72.91 159	32.982 /3	36.74 5	60.388	13.33 51	02.00 36	45.36 185
	19	31.988 254	74.50 1,11	32.869 143	36.69 <sub>1</sub>	60.269	15.84	61.64 61.20	47.21
März	I	31.734 206	75.61 62	32.720 .6.	36.70	00.114	10.20	61.20 50 60.70 53	48.65 97
	II	31.458 284	76.23 13	32.562	36.74 7 36.81 7	59.934 192	10.00	60.17 53	49.62 48 50.10 <del>2</del>
	2I 2T	31.174 <sub>281</sub> 30.893 <sub>268</sub>	76.36 36 76.00 84	32.388	26.01	59.742 192	$16.80 \frac{20}{7}$ $16.87 \frac{7}{6}$	59.63 50	1007
April	31		04	32.215 162	36.91	59.550 181	16.81		3-
reprii	10 20	30.625 <sub>243</sub> 30.382 <sub>211</sub>	75.16 73.85 <sub>172</sub>	32.053 <sub>140</sub> 31.913 <sub>112</sub>	37.20 <sub>20</sub>	59.369 59.210 128	10.04	59.13 46 58.67	49.55 <sub>98</sub> 48.57 <sub>139</sub>
	30	30.171	72.13 212	OT SOT	37.40 26	EU 083	10.37	58.67 39 58.28 39	47.18
Mai	10	30.001	70.01	31.725 76 31.725 36	37.66	58.992 46	10.04	57.98 30	47.18 <sub>174</sub> 45.44 <sub>201</sub>
	20	29.877 74	67.55 275	$31.689 \frac{3^{\circ}}{6}$	37.97 31 39	$58.946 \frac{7}{1}$	15.00 39	57·77 <u>9</u>	43.43 223
	30	29.803 22	64.80	31.695 48	38.36	58.947 47	15.27	57.68	41.20
Juni	9	29.781 =	01.03	31.743	2X XI	58.994		57.69	30.05 241
	19	29.811 81	50.71 320	31.833 130	39·34 <sub>58</sub>	59.087 128	14.54 00	57.82 23	36.44 230
Tuli	29	29.892	22.21 319	31.963 167	39.92 62	59.225 178	14.20 27	58.05 <sup>23</sup> 58.20 <sup>34</sup>	34.05 232
Juli	9	30.024 178	52.32 309	32.130 199	40.54 65	59.403 214	13.93 22	50.39 43	31.73 219
	19 29	30.202	49.23 290	32.329 227	41.19 65 41.84 62	59.617	13.71 16	58.82 50.22 51	29.54 200
Aug.	8	30.422 257 30.679 290	46.33 <sub>262</sub> 43.71 <sub>225</sub>	32.556 <sub>251</sub> 32.807 <sub>271</sub>	12.46	59.864 274 60.138 296	13.55 <sub>12</sub> 13.43 <sub>9</sub>	59.33 <sub>59</sub> 59.92 <sub>65</sub>	27.54 <sub>177</sub> <sub>25.77 <sub>150</sub></sub>
8.	18	30.969	41.46		42.46 43.01 47	60.434 315	T2 24	60.57	24 27
	28	31.284 315	39.64 130	33.364 298	43.48 47	328	13.28	61.28 74	23.06
Sept.	7	31.619 348	38.34 74	33.662	43.84 21	61.077 338	13.23	62.02 62.80 78	22.16
	17	31.907 354	37.60 15	33.907 310	44.05 -		13.18		21.61 55
01.1	27	32.341 252	37.45 46	34.277 211	44.12	01.759 347	13.13	03.50	21.41 =
Okt.	7	32.674 344	37.91 106	34.588 308	44.03 23		13.08 5	64.39 79 65.18	21.57 53
	17	33.018 344	38.97 163	34.896 301	43.80 23	62.451 345	13.03	76	22.10 90
Nov.	27	33.345 304	40.60 213	35.197 290	43.43 47	62.789 327	13.00	65.94 66.67 73	23.00
NUV.	6	33.649 271	42.73 257	35.487 273	42.96 47 42.40 56	1 03.110 200	13.00	68	24.27 161
	26	33.920 <sub>232</sub> <sub>34.152 186</sub>	45.30 290 48.20 313	35.760 273 36.010 220	4T 8T 39	63.425 285 63.710 254	13.05 12	67.35 61 67.96	25.88 192 27.80 221
Dez.	6	34.338	51.33 326	36.230 186	41.22 59	63.964 215	13.37 30	68.49 53	30.01
	16	24 472	54.59 325	36.416	40.65	64.179 170	13.67	68.91	32.45 260
	25	34.550	57.84 325	<sup>23</sup> 36.561 <sup>143</sup>	40.14	64.349	14.05 47	69.23 32	35.05 267
	35	34.569	60.99	36.660	39.71 43	64.468	14.52	69.42	37.72
Mittl.		31.365	61.98	32.676	35.50	60.011	10.24	60.53	30.98
sec δ,		1.363	-0.927	1.034	+0.264	1.149	+0.566	2.835	+2.652
a, b,		+1.8	+0.2	+3.4	-0.4	+3.8	-1.0	+6.6	-r.i
υ,	0	0.00	-1.00	0.00	-1.00	0.00	-1.00	—o.oɪ	-1.00

50000		240) ζ Ca	nis mai.	241) μ Ge	minorum	243) β Ca	nis mai	242) ψ1	Aurigae
Ta	ıg	AR.	Dekl.	AR,	Dekl.	AR.	Dekl.	AR.	Dekl.
	4.11	6 <sup>h</sup> 18 <sup>m</sup>	-30° 1′	6 <sup>h</sup> 19 <sup>m</sup>	+22° 32′	6 <sup>h</sup> 20 <sup>m</sup>	-17° 55′	6 <sup>h</sup> 20 <sup>m</sup>	+49° 18′
194	47	0 10		19	+22 32	0 20	-17 55	0 20	+49 18
Jan.	0	17.475 33	77.78 273	45-556 88	35.93 8	22.471 52	40.44 223	49.681 107	65.54 169
	10	17.508 =	80.51	45.644 35	36.01	22.523 4	42.67	49.788	67.23 160
	20	17.488	83.03	45.679 =	36.17 22	22.527 44	44.71 181	49.822	68.92
Till a la co	30	17.418	85.28	45.662 64	36.39 27	22.483 89	46.52 152	49.785	70.55 150
Febr.	9	17.301 157	07.19	45.598 107	36.66 27	22.394 128	48.04 132		72.05 131
1 - 500	19	17.144 189	88.73	45.491	36.93 26	22.266	49.26 80	49.518 210	73.36 105
März	1	16.955	89.87	45.350 .66	37.19 23	1 22 108	50.15 55	49.308	74.41 75
	II	16.744 223	90.59 30	45.184	37.42 .0	21.028	50.70 22	49.063	75.16
	21	I TO.52T	90.89 =	45.005	37.60 13	21./30	50.92 -	48.800 267	75.00 11
	31	10.290 216	90.76 54	44.825 172	37.73 7	21.543 185	50.80 45	48.533 254	75.71 1 22
April	10	16.080	90.22	44.653 152	37.80 <sub>1</sub>	21.358 168	50.35 78	48.279 228	75.49 53
	20	15.003	89.27	44.501	37.81 -	21.190	49.57 108	48.051	74.96 80
35 .	30	15.712	87.95 768	44-378 88	37.80	21.048	48.49 136	47.862	74.16 103
Mai	10	15.575 99	86.27 200	44.290 49	37.76	20.937	47.13 162	47.721 87	73.13 122
	20	15.476 57	84.27 227	44.241 6	37.72	20.862 35	45.51 184	47.634 27	71.91 135
2350	30	15.419 13	82.00 249	44.235 38	37.69	20.827 6	43.67 204	47.607 34	70.56
Juni	9	15.406 =	79.51 266	44.273 82	37.69	20.833 46	41.63 217	47.641 05	09.12
	19	15.437 75	76.85 276	44-355 123	37.72 8	20.879 86	39.46 227	47.736	67.65
T 1:	29	15.512 116	74.09 277	44.478 ,6,	37.80 11	20.965 124	37.19 229	47.890 209	66.19
Juli	9	15.628	71.32 273	44.639 196	37.91 14	21.089 159	34.90 225	48.099 259	64.78 133
	19	15.784 191	68.59 259	44.835 226	38.05 16	21.248	32.65 215	48.358 304	63.45 122
	29	15.975	00.00	45.061 252	38.21	21.438	30.50	48.662	62.23 108
Aug.	8	16.197	03.03 208	45.314 200	38.38	21.055	28.53	49.004	61.15 94
	18	10.447	61.55	45.589	38.52	21.090 06	20.81	49.3/0 400	60.21 78
	28	16.720 291	59.84 128	45.882 306	38.64 7	22.157 277	25.39 106	49.780 423	59.43 60
Sept.	7	17.011 306	58.56 79	46.188 318	38.71 0	22.434 288	24.33 64	50.203 438	58.83 43
	17	17.317 313	57.77 26	46.188 318 46.506 324	38.71 8	22 722	23.69 20	50.641	58.40
01.	27	17.030 317	57.51 28	40.830 327	38.63	23.018 300	23.49 26	51.090	58.16 4
Okt.	7	17.047	57.79 82	47.157 328	38.48 21	20.010	23.75 71	51.544 452	58.12 -
	17	18.261 314	58.61	47.485 323	38.27 26	23.617 292	24.46	51.996 445	58.27 37
	27	18.567 291	59.95 180	47.808 313	38.01 30	23.909 281	25.60 154	52.441 429	58.64 59
Nov.	6	18.858 270	61.75	40.1210	37.71 31	24.100	27.14 -06	52.870	59.23 0-
	16	19.120 24	63.96	48.419	37.40 20	24.453 220	29.00 213	53.4// 000	60.03 102
<b>D</b>	26	19.309 200	00.49 276	40.094	37.11	24.092 200	31.13 230	JU - J 222	61.05 122
Dez.	6	19.574 165	69.25 288	48.941 211	36.88 17	24.901 172	33.43 240	53.9°3 <sub>281</sub>	62.27 140
	16	19.739 118	72.13 291	49.152	36.71 8	25.073 131	35.83 240	54.264 222	63.67 154
	26	19.857	75.04 284	49.322	36.63 -	25.204 84	38.23 233	54.486	65.21 165
1	35	<sup>26</sup> 19.924	77.88	49.443	36.64	25.288	40.56	54.640	66.86
Mittl.	Ort	16.635	78.96	45.211	33.46	21.874	41.92	49.020	62.21
sec δ,	tg δ		-0.578	1.083	+0.415		-0.324		+1.163
a,			-r.6	+3.6	-1.7		-1.8		—ı.8
<i>b</i> ,	<i>b'</i>	0.00	-1.00	0.00	-1.00	0.00	—I.00	-0.01	-1.00

Ta.	~	244) 8 ± Ma	nocerotis	245) α C	Carinae	246) 10 M	onocerotis	249) ξ² Ca	nis maj.
1.00	E	AR.	Dekl.	AR.	DekL	AR.	Dekl.	AR.	Dekl.
194	17	6 <sup>h</sup> 20 <sup>m</sup>	+4°37′	6 <sup>h</sup> 22 <sup>m</sup>	-52° 39′	6 <sup>h</sup> 25 <sup>m</sup>	-4° 43′	6 <sup>h</sup> 32 <sup>m</sup>	-22° 54′
Jan.	0	57.892	19.10	48.274 19	55.83 336	20.898	38.27	50.704	75.36 251
	10	57.967 28	18.08 88	48.255	59.19 211	20.969 71	39.84 141	50.763 8	77.87 232
	20	57.995 =	T7 20	48.165 158	62.33 283	20.992 = 23	41.25	50.771 =	80.19 208
	30	57.975 65	16.46 74	48.007 218	05.10	20.969 68	42.47	50.729 88	82.27 778
Febr.	9	57.910 104	15.88 42	47.789 271	67.60 201	20.901 107	43.49 79	50.641 129	84.05 145
		104						129	
Mönn	19	57.806	15.46 28	47.518 313	69.61 152	20.794 138	44.28	50.512 162	85.50 110
März	I	57.671	15.18	47.205	71.13 101	20.656 161	44.84 33	50.350 186	73
	11	57.514 170	15.05	46.864 357	72.14 49	20.495 173	45.17 11	50.164 200	87.33 35
77	21	57.344	15.05	40.50/	72.63 -4	20.322 176	45.28 =	49.964 204	87.68 - 2
	31	57.173 163	15.18 27	46.146 350	72.59 55	20.146 168	45.16	49.760	39
April	10.	57.010	15.45 39	45.796 329	72.04 106	19.978	44.83	49.563 182	87.27 74
	20	50.805	15.84	45.407 207	70.98	19.827	44.28 55	49.381 158	86.53
	30	56.746 88	16.35 62	45.170 255	69.45	19.700 97	43.53 94	49.223 128	85.44
Mai	10	56.658 52	16.98 76	44.915	07.48 226	19.603 61	42.59 112	49.095 93	84.03
	20	56.606 12	17.74 86	44.708 152	65.12 271	19.542 22	41.47 129	49.002 53	82.33 195
	20	56.594 28	18.60			TO 720		18 040	80.38 217
Juni	30 9	r6 600		44.556 44.462	62.41 298	19.520 <sub>16</sub> 19.536 <sub>56</sub>	40.18	10 006	
ouni	19	r6 600	19.57 106 20.63 111	44 400 =	59.43 318	19.592	38.75 153	18 061	00 -33
	29	56.796	21 74	44 457	56.25 330	19.592 95	37.22 160	10.022	
Juli	9	56.790 141	21.74 115 22.89 114	44.457 89 44.546 <sub>147</sub>	52.95 334	19.816 162	35.62 164 33.98 162	49.033 107	73.45 <sub>247</sub> 70.98 <sub>243</sub>
oun	9	56.937 174		The second second	49.61 334	will be the first that the same of		49.140	
	19	57.111 203	24.03 110	44.693 202	46.33 313	19.978 192	32.36	49.284 178	68.55 234
	29	57.314 227	25.13 101	44.895 252	43.20 288	20.170	30.81	49.462	00.21 216
Aug.	8	57.541 240	26.14 90	45.147 207	40.32 253	20.388	29.38	49.669	64.05
	18	57.790 265	27.04 72	45.444	37.79 210	20.027	28.13 102	49.903 256	62.15 158
	28	58.055 279	27.76 53	45.781 337	35.69 160	20.884 273	27.11 76	50.159 275	60.57 119
Sept.	7	58.334 290	28.29	46.149 391	34.09 102	21.157 283	26.35 44	50.434 289	59.38 76
151 4	17	58.624 296	28.50	1 40.540	33.07 41	21.440 291	25.91	50.723 300	58.62 28
	27		28.62 -	46.947 411	22.66	21.731 296	25 80 -	51.023 305	$58.34 \frac{20}{21}$
Okt.	7	FO 220	28.42 46	47.350	32.89 88	22.027 296	26.03 58	51:328 305	58.55 71
	17	59.520 295	27.96 69	47.765 407	33.77 150	22.323 291	26.61 90	51.634 301	59.26 118
	1	-93							7
Mary	27	59.815 286	27.27 90	48.157 367	35.27 207	22.614 282	27.51 118	51.935 291	60.44 161
Nov.	6	60.IOI 271	26.37 106	48.524 331	37.34 256	22.896 268	28.69 143	52.226 274	62.05 199
	26	60.372 250	25.31 116	40.055 284	39.90 297	23.164 247	30.12 160	52.500 251	64.04 229
Dez.	6	60.622 60.846	24.15 123	49.139 230	42.07 227	23.411 210	31.72 171	52.751 210	66.33 251
DCZ.			22.92 123	49.369 167	46.14 345	23.630 186	33.43 176	/52.970 182	68.84 263
	16	61.036	21.69 119	49.536 99	49.59 352	23.816	35.19 174	53.152 139	71.47 266
	26	I AT TXA	20.50 110	49.635 28	53.11 346	23.962	36.93 166	53.291 02	74.13 260
	35	61.293	19.40	<sup>28</sup> 49.663	56.57	2824.065	38.59	3053.383	76.73
Mittl		57.521	17.14	46.472	57.35	20.460	40.16	50.022	77.52
sec δ,		1.003	+0.081	1.649	-1.311	1.003	-0.083	1.086	-0.423
	a'	+3.2	-r.8	+1.3	-2.0	+3.0	-2.2	+2.5	-2.9
	b'	0.00	-1.00	-+0.01	-1.00	0.00	-0.99	0.00	-0.99

	(53)	247) 8	Lyncis	251) γ Ge	minorum	250) 51 .	Aurigae	252) v	Puppis
Ta	g	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Deltl.
19	47	6 <sup>h</sup> 32 <sup>m</sup>	+61° 31'	6 <sup>h</sup> 34 <sup>m</sup>	+16° 26′	6 <sup>h</sup> 34 <sup>m</sup>	+39° 26′	6 <sup>h</sup> 36 <sup>m</sup>	-43° 8′
Jan.	0	52.21 14	52.90 231	39.350 08	48.80	59.701	25.08	° 9.548 28	51.71 222
	10	52.35 5	55.21 231	39.350 <sub>98</sub> 39.448 <sub>48</sub>	48.47 33	EO 818 11	26 18	2	54.94 303
	20	$52.40 - \frac{5}{6}$	57.52 223	30.406	48.24 12	50.872	27 22 114	0.542	57.97 276
	30	52.34 14	59.75	39.493 3	48.12 2	59.866 7	28.48	0 450 93	60.73 241
Febr.	9	52.20 23	61.80	39.442 94	48.10 - 5	59.801 118	29.59 101	0.202	63.14 200
	5.19			77		The second second second	101	-93	
März	19	51.97 29	63.59 146	39.348 129	48.15 10	59.683 163	30.60 86	9.107 234	65.14
MISHZ	I	51.68 35	65.05 108	39.219 155	48.25	59.520	31.46 68	8.873 262	00.09
	II	51.33 37	66.13 66 66.79 22	39.064 169	48.39 16	59.326 213	32.14 46 32.60 23	8.611 279	67.78 60
	21	50.96 38	6H OT -	38.895	48.55	59.113 219	$\begin{vmatrix} 32.83 & \frac{23}{4} \\ 32.83 & \frac{23}{4} \end{vmatrix}$	8.332 284	68.38 10 68.48 28
	31	50.58 37	. 22	38.721 167	48.72	58.894 212		8.048 278	30
April	10	50.21	66.79 64	38.554 152	48.89 18	58.682	32.82	7.770 261	.68.10 85
	20	49.88	66.15	38.402	49.07	58.490 161	32.59 43	7.509 236	67.25 131
	30	49.58 22	65.14	38.276 95	49.26	58.329 122	32.16 60	7.273 201	65.94 173
Mai	10	49.35 16	03.79 -60	38.181 -8	49.47 24	58.207 78	31.56 75	7.072 160	64.21
	20	49.19 9	62.16	38.123 18	49.71 28	58.129 28	30.81 85	6.912 116	62.10 245
	30	49.10	60.32 200	38.105	49.99 31	58.101	29.96	6 706	59.65 272
Juni	9	40.70	58.32 208	28 728 23	FO 20	58 T24 23	20.05	6720	56.93 293
	19	49.18 8	56.24 211	38.192 64	50.66	ES TOS /4	28.00	6.712	
	29	49.34 23	54.13 207	38.295 140	ET.05	ES 22T	27.14 95	6.745 82	50.02
Juli	9	49.57.31	52.06 200	38.435 174	51.47 43	58.490	26 2T 93	6.827 131	47.80 309
						The Paris	89	131	3-9
	19	49.88 37	50.06 187	38.609 205	51.90 41	58.702 250	25.32 83	6.958 176	44.71 297
45	29	50.25	48.19	38.814 231	52.31 39	58.952 283	24.49 76	7.134 217	41.74 276
Aug.	8	50.67 48	46.48	39.045 253	52.70 33	59.235 312	23.73 68	7.351 254	38.98 244
	18	51.15 51	44.97 128	39.298 273	53.03 24	59.547 335	23.05 61	7.605 286	36.54 206
	28	51.66 55	43.69 104	39.571 288	53.27 14	59.882 355	22.44 52	7.891 314	34.48 159
Sept.	7	52.21 58	42.65 77	39.859 300	53.41 2	60.237 371	21.92 44	8.205 335	32.89 105
	17	52.79 50	41.88	40.159 200	53.43 =	181	21.48	0.540	31.84 47
	27	53.30 60	41.40 18	40.468 216	53.30 26	60.989 388	21.13 25	8.889	31.37 -
Okt.	7	53.98 61	41.22 -	40.784 317	53.04 39	61.377 391	20.88	9.241	31.50 74
	17	54-59 59	41.35 44	41.101 315	52.65 50	61.768 387	20.73 2	9.604 350	32.24 134
	27	55.18 58	41.79	41.416 308	52.15 60	62.155 379	20.71 ,,	0.054	33.58
Nov.	6		12 56	I AT-72A	51.55 65	1 02.534 - (-	20 80 11	10.287 333	35.48 238
	16	55.70 55	1266	12 020	50.90 67	62.896 302	27.08	10.596 275	37.86 238
	26	56.31 50 56.81 44	45.06 169	42.296 249	50.23 66	03.234	21.50	10.871 232	40.64 308
Dez.	6	57.25 44	46.75 193	42.545 217	49.57 60	63.538 304	22.09 75	11.103 184	43.72 327
	16	57.63 29	48.68 212	42.762	48.97 52	63.802 214	22.84 89	11.287 128	46.99 335
	26	57.92 21		42.938 131	48.45 43	64.016	23.73 <sub>IOI</sub>	11.415 68	50.34 333
	35	30 58.13	50.80 225	3143.069	48.02	64.174	24.74	<sup>31</sup> 11.483	53.67
Mittl	Ort	51.03	49.80	39.004	46.52	59.213	22.52	8.282	54.34
	$tg \delta$	2.098	+1.844	1.043	+0.295	1.295	+0.823	1.371	-0.937
	a'	+5.5	-2.9	+3.5	-3.0	+4.2	<b>-3.0</b>	+1.8	-3.I
	b'	-0.02	-0.99	0.00	-0.99	-0.01	-0.99	+0.01	-o.99
W- 100	Becom		Will all and the	The second	200 5 50		A CONTRACTOR	San Carried	100

. Та		- 248) 23 H.	Camelop.	254) ε Ger	ninorum	256) ξ Gen	ninorum	257) α Can	is maj. 1)
La	ę.	AR.	Dekl.	AR.	Dekl.	AR.	DekL	AR.	Dekl.
194	47	6 <sup>h</sup> 37 <sup>m</sup>	+79°37′	6 <sup>h</sup> 40 <sup>m</sup>	+25° 11′	6 <sup>h</sup> 42 <sup>m</sup>	+12° 57′	6 <sup>h</sup> 42 <sup>m</sup>	-16° 38′
Jan.	0*)	° 18.11	41.01 306	40.653 111	9.85 20	19.214 103	18.16	49.382	28.08 228
	10	$18.36 \frac{25}{3}$	44.07	40.764 58	10.05	TO 217	17.58 46	49.452 20	30.30
	20	T8 25	47.10 289	40.822 4	10.35	TO 260	17.12	49.472 = 28	32.46 187
	30	т8.то	49.99 265	$40.826 \frac{4}{48}$	10.72 42	TO 272	16.80 21	40.444	34.33 161
Febr.	9	17.61 68	52.64 230	40.778 93	11.14 44	19.327 45	16.59 10	49.370 74	35.94 130
	The sta	00		,,,				1 ATT	
3.6"	19	16.93 86	54.94 187	40.685 132	11.58 42	19.239 124	16.49 2	49.255 148	37.24 98
März	I	16.07 99	56.81	40.553 <sub>161</sub>	12.00	19.115	16.47 -6	49.107 173	38.22 66
	II	15.08 106	58.18 82	40.392	12.37 31 12.68	18.965 166	16.53 12	48.934 187	38.88
	21	14.02 109	59.00 25	40.215 184	12.00 21	18.799 172	16.65	48.747 192	39.21
	31	12.93 107	59.25 -	40.031 178	12.91	18.627 166	16.82 20	48.555 186	39.22 32
April	10	11.86	58.94 86	39.853 162	13.04 6	18.461	17.02 25	48.369 171	38.90 62
	20	10.86	58.08	39.691 136	13.10 -	I TX 200	17.27 28	48.198	28 28
	30	0.07	56.73 180	39·555 <sub>103</sub>	T2.08	T R T R O	17.55 34	48.049	27 26
Mai	10	0.22 /3	54.93 216	20 450	12.99 12	T8 082	17.89	47.929 86	26 76
75- 75	20	8.64	52.77 246	20.286	12.87	18 010	18.27 43	17812	24 71
	No.	39				=3	43	79	100
11 388	30	8.25 18	50.31 266	39.362 20	12.72 15	17.994 14	18.70 49	47.794 9	33.03 185
Juni	9	8.07 - 3	47.65	39.382 63	12.57	18.008	1 10.10	47.785 =	31.18
	19	8.10	44.85 285	39.445 104	12.42	18.063	19.72 57	47.815 69	29.18 210
	29	8.34	42.00	39-549	12.28	18.156	50.29 50	47.884 107	27.08
Juli	9	8.79 64	39.18 273	39.693 180	12.16 10	18.286	20.88 59	47.991 141	24.95 210
	19	9.43 82		39.873 212	12.06	18.449 193	21.47 57	48.132	22.85 202
	29	TO 07	36.45 257	40.085 241	11.97	18.642		48.305 201	20.83 186
Aug.	8	11.23 113	33.88 235	40.326 264	11.88 10	18.862	22.56 <sub>45</sub>	48.506 226	18.97 163
	18	12.36	31.53 207	40.590 286	11.78 13	19.104 262	23.01 33	48.732 248	17.34 135
	28	13.61	29.46	40.876	11.65 16	19.366	23.34 19	48.980 266	
		135	27.69 143				12: (1): (1)		77
Sept.	7	14.96	26.26	41.179 317	11.49 21	19.645 292	23.53 5	49.246 280	15.00 60
	17	1 10.30	25.22 64	41.490	11.28	19.937	23.58	49.526	14.40 18
	27	17.00	24.58 21	41.023 224	11.02	20.239 309	23.45 30	49.817 207	14.22 -
Okt.	7	10.37	24.37 =	42.157 228	10.71	20.548 312	23.15	50.114 200	14.49 72
	17	20.88 148	24.60 67	42.495 336	10.37 34	20.860 312	22.68 47	50.413 296	15.21
	0.7	22.26		. 40 QOT				400 -1 -	
Nov.	<sup>27</sup>	22.36	25.27 112	42.831 330	10.00 38	21.172 305	22.05 74	50.709 288	16.35
1104.	16	23.77	26.39 155	43.161 317 43.478 297	9.62 35	41.4//	21.31 83	50.997 273	17.89 187
	26	25,10 133	27.94 195	43.470 297	9.27 29	21.771 275	20.48 88	51.270 251	19.76 213
Dez.	6	26.30 104	29.89 232	43.775 271	8.98 22	22.040 251	19.60 89	51.521 224	21.89 232
Dez.	U	27.34 86	32.21 263	44.046 236	8.76 12	22.297 219	16.71 84	51.745 188	24.21 242
	16	28.20 64	34.84 286	44.282	8.64 0	22.516	17.87 78	51.933 148	26.63 244
	26	28.84	37.70	44.476	8.64 10	22.695	17.09 67	52.081	29.07 238
	35	29.24	37·7° 300 40.7°	44.623	8.74	22.831	16.42	3352.184	31.45
Mittl	. Ort	13.61	37.75	40.286	7.56	18.863	15.86	48.808	30.48
	, tg δ	5.554	+5.463	1.105	+0.470	1.026	+0.230	1.044	-0.299
	a'	+10.3	-3.4°3 -3.2	+3.7	-3.5	+3.4	-3.7	+2.7	-3.7
	b'	- 0.06	-0.99	-0.01	_0.98	0.00	-0.98	0.00	-0.98
	1336		33		- 90	200	,,,,	The same of the	

<sup>1)</sup> Ort des Hauptsterns; die jährliche Parallaxe (o.º377) ist bereits berücksichtigt.
\*) Bei Stern 254), 256) und 257) lies Jan. 1.

1177) 16 Monocerotis 258) 18 Monocerotis 262) α Pictoris 26								-6-) 0 C	
Ta	ıg	AR.	Dekl.	AR.	Dekl.	- C C C C C C C C		261) 9 Ge	1
-						AR.	Dekl.	AR.	Dekl.
19.	47	6 <sup>h</sup> 43 <sup>m</sup>	+8° 38′	6 <sup>h</sup> 45 <sup>m</sup>	+2° 28′	6 <sup>h</sup> 47 <sup>m</sup>	-61° 52'	6 <sup>h</sup> 49 <sup>m</sup>	+34° 1′
Jan.	1	30,300	43.96 80	6.173	20.66	8 4T 47	58"25	18.241	20,60
Jail.	10	39.309 100 2 39.409 11	43.90 85	6.270	19.44 108	<sup>3</sup> 41.47 <sub>1</sub> 41.46 <sub>11</sub>	58.35 358	3 18.371 <sub>70</sub>	39.68 73
	20	20 460	12 10	6 217	TX 26	41.35 20	61.93 341	I TRAAT	40.41 82
	30	20.462	41.84	6 217	17.45	41.15 27	65.34 314 68.48 380	T8.453 -	41.23 <sub>88</sub> 42.11 <sub>88</sub>
Febr.	9	20 417 43	AT AT 43	6.270 89	16.72 73	40.88 35	0	TS 400	42.99 85
		0/	41.41 28	59			230	90	
74"	19	39-330 122	41.13 16	6.181	16.16	40.53 40	73.66	18.313 139	43.84 76
März	I	39.208 149	40.97 5	6.058 148	15.79 21	40.13 45 39.68 47	75.58 142	1 18.174	44.60 64
	II	39.059 164	40.92 6	5.910 165	15.58	39.00 47	77.00 89	18.002 192	45.24 49
	21	38.895 170	41.12	5.745 170	15.53 11	39.21 48	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	17.810 201	45.73 32
	31	38.725 165	41.12 24	5-575 166	15.04 25	38.73 48	- 75 30 401	17.609 196	46.05 13
April	10	38.560	41.36	5.409 152	15.89 39	38.25 46	78.07	17.413 181	46.18
	20	38.409 128	41.67 40	5.257 130	16.28	37.79	77.37 122	17.232	40.14
	30	38.281	42.07 47	5.127 102	16.82 66	37.36 38 36.98 34	76.15 160	17.077	45.94 25
Mai	10	38.182 6	42.54 56	5.025 68	17.48 80	36.98 34	74.46 213	16.957 81	45.59 46
	20	38.117 27	43.10 63	4-957 32	18.28 91	36.64 27	72.33 252	16.876 36	45.13 56
10 10 2	30	38.090	43.73 7	4.925	19.19 101	36.37 20	69.81 <sub>285</sub>	16.840 ,,	44.57 62
Juni	9	28 TOT 11	44.44 78	4.032	20.20	36.17	00.90	16.851	43.95 66
	19	38.152 89	45.22 81	4.977 83	21.30	36.04 5	1 0.7.03	16.908	43.29 67
	29	38.241	46.03 84	5.060	22.46	35.99 2	00.57 228	17.010	42.62
Juli	9	38.365 158	46.87 84	5.178 150	23.64 118	36.01 10	57.19 337	17.155 185	41.95 65
	19	38.523 188	45 5T	F 228	24.82 113	36.11 18	5282	17.340 221	41.30 62
	29	38.711 213	18.52	F F08	25.95 104	36.29 25	53.82 328	17.561 253	40.68 60
Aug.	8	38.924 237	10.26	5716	26.00	36.54 <sub>31</sub>	50.54 3°7 47.47 278	17.814 281	0
	18	39.161 257	40.80	5.945	27.80	36.85 37	44.69 238	18.095 304	39.51 57
4	28	39.418 272	50.20	6.195 267	28.62 73	37.22 42	42.31 189	18.399 304	38.98 53
Cont		THE RESERVE OF THE PARTY OF THE	33	6.6-		Control of the second			200 - 400
Sept.	7	39.690 287	$\begin{bmatrix} 50.72 & 14 \\ 50.86 & \frac{1}{8} \end{bmatrix}$	6.462 280	29.14 27	37.64 <sub>46</sub>	40.42	18.724 341	38.47 48
	17-	39.977 297	50.78	6.742 290	29.41	38.10 49	39.08 73	19.065 353	37.99 44
Okt.	<sup>27</sup> 7	40.274 302 40.576 307	50.49	7.032 298	29.41 27	38.59 51 39.10 ft	30.35 8	19.418 363 19.781 367	37.55 40
OH.	17	40.883 307	40.00	7.330 <sub>302</sub> 7.632 <sub>301</sub>	28 50 55	39.61 <sub>49</sub>	38.86 59	19.781 <sub>367</sub> 20.148 <sub>368</sub>	37.15 35 36.80 29
£.16, 3			79.99 70		A15 (112.42)	39.02 49		368	all a compared to the control of the
77	27	41.189 301	49.29 87	7.933 295	27.78 104	40.10	40.10 185	20.516 362	36.51 19
Nov.	6	41.490 280	48.42 99	0.220 282	26.74 121	40.3/ 42	41.95 241	20.070 349	36.32 9
	16	41.779 271	47.43 107	8.511 266	25.53 135	41.00 36	44.36 287	21.227 329	36.23 4
Dez.	26 6	42.050 247	46.36	8.777	24.18 142	41.00 36 41.36 30 41.66 23	47.23 324	21.556 301	36.27 19
Dez.		42.297 214	45.25 109	9.018 210	22.76		50.47 350	21.857 264	36.46 34
	16	42.511	44.16 104	9.228 172	21.32 140	41.89 13	53.97 363	22.121 219	36.80
	26	42.088	43.12 93	9.400	19.92	42.02	57.00 264	22.340 168	37.30 63
	35	3342.820	42.19	33 9.528	18.61	<sup>34</sup> 42.06	61.24	3422.508	37.93
Mittl	Ort	38.948	41.63	5.787	18.24	38.85	62.53	17.809	37.56
sec δ,			+0.152	1.001	+0.043	2.122	-1.872	1.207	+0.675
a,			-3.8	+3.1	-3.9	+0.6	-4.I	+4.0	-4.3
b,		0.00	-0.98		-o.98	+0.03.	-0.98	-0.01	-o.98
300		1.4			March 1	ATTEN TO BE		F	17
			William Property and a second						

- m		266) 9 Ca	nis maj.	260) 24 H.	. Camelop.	268) € Ca	nis maj.	269) ζ Geminorum	
Ta	rg _	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
192	47	6 <sup>h</sup> 51 <sup>m</sup>	-11°57′	6 <sup>h</sup> 52 <sup>m</sup>	+77° 2′	6 <sup>h</sup> 56 <sup>m</sup>	-28° 53′	7 <sup>h</sup> c <sup>m</sup>	+20° 38′
Jan.	I	44.101 90	72.12 205	25.52 28	59.72 295	33.310 76	51.74 285	58.304 129	61.42
	10	44.191 40	74.17	<sup>4</sup> 25.80 8	02.07	<sup>5</sup> 33.386 <sup>7</sup> 23	54.59 260	58.433 76	01.28
	20	44.231 -9	76.07 168	25.88 =	05.05 288	33.409 30	57.28 245	· 58.509 23	61.26
1.00	30	44.222 55	77.75	25.75	68.53 268	33.379 8T	59.73	58.532 28	61.36
Febr.	9	44.167 97	79.19 117	25.44 49	71.21 239	33.298 125	61.88	58.504 75	61.56 27
23.5	19	44.070	80.36	24.95 64	73.60 200	33.173 162	63.69 144	58.429 115	61.83 30
März	I	43.938 , 28	81.26 60	24.31 74	75.60 152	33.011	05.13	58.314	02.13
	II	43.780	81.86	23.57 82	77.13	32.820 210	66.17 64	58.169 165	02.45
	21	43.005 181	82.18	22.75 86	78.15 47	32.610 217	66.81	58.004 175	02.70 28
	31	43.424 178	82.20 =	21.89 85	78.62 8	32.393 215	67.03 =	57.829 173	63.04 23
April	10	43.246 166	81.95	21.04 81	78.54 62	32.178 203	66.84	57.656 160	63.27 20
	20	43.080	81.42	20.23 73	77.92 113	31.975 183	66.25 97	57.496 139	63.47 15
Mai	30	42.935 118	80.63 79	19.50 62	76.79 157	31.792 155	65.28 97	57-357	63.62
ME	10	42.817 87	79.60 126	18.88	75.22 196	31.637 123	63.94 168	57.246	63.74 10
	20	42.730 50	78.34 147	18.39 34	73.26 227	31.514 85	62.26	57.169 38	63.84 8
	30	42.680 12	76.87 165	18.05	70.99 252	31.429 45	60.29 222	57.131	63.92 8
Juni	9	42.668 =	75.22 178	17.86	68.47 268	31.384 4	58.07 242	57.132 42	64.00 7
	19	42.693 63	73.44 187	17.85 =	65.79 276	$31.380 {37}$	55.65 256	57.174 82	64.07
Juli	29	42.756 99	71.57 192	18.00	63.03 277	31.417 78	53.09 263	57.256 119	64.16 8
Jun	9	42.855 133	69.65 191	18.32 48	00.20 272	31.495 117	50.46 263	57.375 154	64.24 8
	- 19	42.988 164	67.74 184	18.80 <sub>62</sub>	57.54 259	31.612	47.83 254	57.529 186	64.32 6
7	29	43.152	65.90	19.42	54.95 241	31.764 187	45.29 228	57.715 215	64.38
Aug.	8	43.345 218	64.20	20.17 88	52.54 210	31.951	42.91	57.930 240	64.42 -
	18	43.563 240	62.69	21.05 98	50.35 190	32.168 245	40.78	58.170 263	64.40
	28	43.803 258	61.44 95	22.03 106	48.45 159	32.413 268	38.97 142	58.433 281	64.33 16
Sept.	7	44.061	60.49 59	23.09 114	46.86	32.681 288	37·55 <sub>96</sub>	58.714 297	64.17 25
	17	44.330 286	59.90 19	24.23 118	45.62 86	32.969 302	36.59 46	59.011	03.92
01.	27	44.622	59.71 20	25.41	44.76 46	33.271	36.13 7	59.323 221	3.5/ 44
Okt.	7	44.917 300	59.91 61	26.63	44.30	33.585 218	36.20 61	59.644 327	63.13 54
	17	45.217 299	60.52	27.80 122	44.27 -	33.903 318	36.81 113	59.971 330	62.59 61
	27	45.516 293	61.53	29.08 118	44.68 85	34.221 310	37.94 162	60.301 60.628	61.98 65
Nov.	6	45.809 282	02.90 167	30.20	45.53 728	1 34.531 200	39.56	60.628 318	01.33
	16	46.091 263	04.57	31.37 103	46.81	34.820 272	41.61	60.628 318 60.946 302	60.67 64
_	26	46.354	00.49	32.40	48.51 208	35.099 242	44.03 260	01.240	00.03
Dez.	`6	40.591 205	08.58 218	33.31 <sub>76</sub>	50.59 242	35.34I <sub>205</sub>	46.72 286	01.520 246	59.44 49
	16	46.796 166	70.76 220	34.07 60	53.01 268	35.546 161	49.58 295	61.772 209	58.95 38
	26	46.962	72.96 215	34.67 41	55.69 287	35.707 111	52.53 292	61.981 162	58.57 26
1225	35*)	3547.083	75.11	335.08	58.56	3635.818	55.45	3762.143	58.31
MittL		43.594	75.06	22.00	57.46	32.521	55.54	57.951	59.29
sec δ,		1.022	-o.212	4.462	+4.349	1.142	-o.552	1.069	+0.377
a,	a'	+2.8	<b>-4.5</b>	+8.7	<b>-4.</b> 5	+2.4	-4.9	+3.6	-5.3
Ъ,	b'	0.00	<b>−0.97</b>	-0.07	-0.97	+o.or	<b>-0.97</b>	-0.01	<b>-0.96</b>

<sup>\*)</sup> Bei Stern 268) und 269) lies Dez. 36.

271) y Canis maj. 273) 8 Canis maj. 274) 63 Aurigae 277) \(\lambda\) Geminorum									
Ţ	a.g	-				274) 63	Aurigae	277) λ Ge	minorum
1 22	337 18	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
19	47	7 <sup>h</sup> 1 <sup>m</sup>	-15°32′	7 <sup>h</sup> 6 <sup>m</sup>	-26° 18′	7 <sup>h</sup> 7 <sup>m</sup>	+39°24'	7 <sup>h</sup> 15 <sup>m</sup>	+16° 38′
Jan.	r	22.131 96	69.42	14.841	23.85 278	61.229	33.76	3.192	17.83
	10	22:227 46	71.69	7 14.931 37	.20.03 262	6т. 288	24.76	10 2 22T 139	17.38 45
	20	$22.273 \frac{4}{4}$	73.80 190	$14.968 \frac{37}{15}$	29.25	61.484 33	35.88	2 410	17.08 30
	30	22.269 52	75.70 164	14.953 66	31.05 212	$61.517 \frac{33}{29}$	37.07	$3.419 \frac{35}{16}$	16.92
Febr.	9	22.217 94	77.34 137	14.887	33.77 179	61.488 86	38.28	3.438 62	16.90 -
	19	22.123	78.71 105	14.776	35.56 144	61.402	20 75 20 20 20 20 20	3.376	16.98 16
März	I	21.992 158	70.70	14.627 178	1 27 00	61.267	39·43 <sub>106</sub> 40·49	3.273	17.14 22
	II	21.834	80.5T	14.449 198	28 07	61.093 200	11.20	3.273 <sub>135</sub> <sub>3.138</sub> <sub>157</sub>	17.36 26
	21	21.657 185	80.95	14.251 208	38.74 28	1 60.803	42.10	2.981 168	17.62 28
	31	21.472 183	8r.06 -	14.043 207	20.02	60.680 213	12 50 49	2.813 168	17.90 27
A2T			0- 0-	A CONTRACTOR OF THE PARTY OF TH				0 108	
April	10	21.289 173	80.87	13.836	38.90	60.467 200	42.85 2	2.645 159	18.17
	20	21.116	80.37 79	13.640 178	38.40 87	60.267	42.87 =	2.400	1 10.44
Mai	30	20.963 127 20.836 97	79.58 107 78.51	13.462	37.53 122	60.090	42.66	2.345 115	18.72 25
191601	20	20 720	77.20	13.309 121 13.188 86	36.31	59.946 59.842	42.25 59	2.230 83	18.97 26
	20	20.739 62	155	13.100 86	34.77 184	00	75	2.147 48	19.23 26
	30	20.677 25	75.65 174	13.102 47	32.93 208	59.782 12	40.91 86	2.099 10	19.49 27
Juni	9	20.652 -	73.91	13.055 8	30.85	59.770 37	40.05	$2.089 \frac{2}{28}$	19.76
	19	20.666	72.01	13.047 -	28.57	59.807 85	39.10	2.117 65	20.04
T 11	29	20.716 87	70.01 205	13.079 71	20.15	59.892	38.10	2.182	20.32 28
Juli	9	20.803 122	67.96 206	13.150 108	23.65 251	60.022	37.07 103	2.284 137	20.60 26
	19	20.925 154	65.90 198	13.258	21.14 243	60.196	36.04 103	2.421 167	20.86
	29	21.079	03.92	13.402	18.71	60.409	35.01 103	2.500	21.10 _0
Aug.	8	.21.262	62.07	13.579 208	16.43 206	60.659 281	34.01	2.785 197	21.28 11
	18	21.472 234	60.42	13.787	14.37	60.940 308	33.06 91	3.000	21.39
	28	21.706 254	59.04 106	14.021 259	12.61 138	61.248 334	32.15 86	3.253 266	21.41 10
Sept.	7	21.960 272	E# 08	14.280 279	11.23 95	6T E82	31.29 -8	3.519 283	21.21
	17	22.232 286	F7 20	14.559 296		61.036 334	20.5T	3.802 298	21.08 36
	27	22.518	L4 00 -	14.855 307	0.81	60 206 3/0	20.80		20.12
Okt.	7	22.814 302	57.18 .60	1 15.102	-0- 4	62,600	20.T7	4.411	20.21
	17	23.116 302	57.78	15.476 314	9.85 56	63.082 392	28.65 40	4.730 324	19.57 75
	27	23.419 299	58.81	15.792 311	11.48	63.478 202	28.25 25	5.054 323	18.82 84
Nov.	6	23.718 299	00.22	16.103 297	13.03 197	63.871 393	28.00 8	5.377 316	17.98 84
	16	24.006	01.98	I TO 400 -	1 15.00		27.02	5.693 303	17.09 90
	26	24.276	1 04.02	16.678	17.33 261	04.017	28.03	5.990	16.19 87
Dez.	6	24.520 212	66.26 236	16.928 214	19.94 277	64.954 300	28.33 51	6.277 253	15.32 79
	16	24.732 173	68.62 240	17.142	22.71 286	65.254 253	28.84	6.530 215	14.53 69
	26	24.905 128	71.02 235	17.314 124	25.57 <sub>285</sub>	65.507 199	29.55 88	6.745	13.84 -6
	36	25.033	73.37	17.438	28.42	65.706	30.43	6.917	13.28
Mittl	Ort	21.587	72.92	14.122	28.14	60.728	32.27	2.851	15.62
sec δ,	tgδ	1.038	-0.278		-0.495		+0.822	1.044	+0.299
a,		+2.7	-5.3	STATE OF THE PARTY.	-5.7	the second second	<b>-</b> 5.9	+3.5	-6.4
<i>b</i> ,			-0.96		-0.96		-0.96	-o.or	-0.95
								F* ·	47

In   In   In   In   In   In   In   In	Το		278) π ]	Puppis	281) 8 1	Volantis	279) 8 Ger	ninorum	280) 19 I	yncis sq
Jan. 1 17.175 88 58.56 322 55.17 2 20.39 370 57.870 146 55.88 11 03.488 210 63.498 127 63.89 17.263 39 61.76 326 55.99 10 55.99 10 55.09 1		<b>"</b> 5	AR.	Dekt.		Dekl.	AR.	Dekl_	AR.	Døkl <sub>+</sub>
To   Tr.203   20   Or.70   206   S.5.00   20   206   206   207	19	47	7 <sup>h</sup> 15 <sup>m</sup>	and the second second		-67° 51′	7 <sup>h</sup> 16 <sup>m</sup>	1000	7 <sup>h</sup> 18 <sup>m</sup>	+55° 22′
To   Tr.203   20   Or.70   206   S.5.00   20   206   206   207	Jan.	I	17.175 88	58.56		29.39 270	57.8706	55.88	33.888	61.62 188
20 17,295 83 64,82 285 55.09 20 30.70 341 58.109 40 55.01 13 34.225 42 65.48		10	T7 262	61.76 326	10 55.19 =	33.09 361	10 c8 or 6	55.77	1034.098	63.50
Febr. 9 17.182 133 70.23 221 54.58 40 43.24 278 58.136 62 56.25 36 34.226 119 69.1 17.182 131 16.674 209 74.26 139 53.70 54 48.36 189 57.970 137 57.00 41 33.4226 119 69.2 11 16.665 231 75.05 96 52.58 60 52.58 6		20	3-	.64.82	55.09 30		r8 TOO 93	55.81	34.225 42	65.50 204
19		30	17.265	67.67 256	54.89	10 TT	ES T40 -		34.267	07.54
Mărz   1	Febr.		17.182	70.23	54.58	43.24 378	-8 TO6 '3	56.25 26	34.226	69.54 188
1						The transfer of the second			Maria III and a second	The second second
1	М:	200	17.049		54.18 48	40.02	58.074 104	50.01 39	34.107 186	71.42 168
21	Marz		10.074	139	53.70 54	48.30 180	57.970	57.00 41	33.921	73.10
April 10			10.005		53.16 58		57.833 161	57.41 40	33.681 278	74.50 108
April 10			10.434 243	50	52.58 60	_ 07	57.072	57.81	33.403 299	75.58 72
April 10		31	10.191	77.11 4	51.98 62	52.48 32	57.499 174	50.10 30	33.104 304	76.30 33
20	April	10	15.947	77.15	51.36	52.80	57.325	58.46	32.800	76.63 6
Mai 10	200	20	15.711	1 46 HA	50.76 -	52.58	57.161	58.70	32.509 264	76.57
Mai 10		30	15.493	75 00	50.18	51.84	57.016	58.88	32.245	76.14 43
30	Mai ·		15.301		49.65	1 50.59	1 46 80M	50.00	1 CO COT	75.36 109
Juni 9 14.933 41 14.933 41 14.933 41 14.933 41 14.933 41 14.933 41 14.933 41 14.933 41 14.935 46 16.77 272 148.16 177 18.16 19. 14.941 89 14.941		20	15.140	72.99	49.17	48.86	r6 810	50.07	31.846	74.27 136
Juli 9 14-933 41 66.17 274 48.4f 25 44.15 287 56.775 67 59.09 3 31.683 73 69.1   Juli 9 14-941 89 60.62 286 47.92 3 34.90 334 56.947 140 59.01 6 31.893 196 65.2   Juli 9 15-030 130 57.76 280 47.95 12 28.24 318 57.260 202 58.95 9 32.089 253 62.3   Aug. 8 15-329 269 52-30 241 48.28 30 25.06 29 57.462 230 58.74 18 15.535 239 48.89 210 48.88 39 22.11 262 57.692 253 58.36 12 32.342 304 62.0   Sept. 7 16.042 294 46.09 123 49.43 53 17.30 167 58.82 19 58.20 294 16.651 330 44.86 69 49.96 57 17.320 342 44.49 103 51.75 62 14.29 88 59.472 335 55.90 71 35.779 522 51.    Nov. 6 17.997 322 44.49 103 51.75 62 14.29 88 59.472 335 55.90 71 38.893 79. 56.20 59.    Nov. 6 18.319 298 47.10 209 49.19 51.75 62 14.29 88 59.472 335 55.90 71 36.820 59.    Nov. 6 18.319 298 47.10 209 57 55.53 60 14.29 88 59.472 335 55.90 71 35.779 522 51.    27 17.662 335 45.52 158 52.96 55 16.69 212 14.29 88 59.472 335 55.90 71 35.779 522 51.    27 17.662 335 47.70 209 53.51 48 51.40 209 125 53.51 48 51.40 212 51.75 62 14.29 88 59.472 335 55.90 71 35.779 522 51.    27 17.662 335 45.52 158 52.96 55 16.69 212 60.470 315 53.73 70 37.326 481 51.    27 17.62 335 47.70 209 53.51 48 51.42 50.42				A TOTAL CO. LAND CO.	COLUMN THE PARTY OF THE PARTY O		2,	3	ALL DISCUSSION (SE	
Juli 9 14-933 41 66.17 274 48.4f 25 44.15 287 56.775 67 59.09 3 31.683 73 69.1   Juli 9 14-941 89 60.62 286 47.92 3 34.90 334 56.947 140 59.01 6 31.893 196 65.2   Juli 9 15-030 130 57.76 280 47.95 12 28.24 318 57.260 202 58.95 9 32.089 253 62.3   Aug. 8 15-329 269 52-30 241 48.28 30 25.06 29 57.462 230 58.74 18 15.535 239 48.89 210 48.88 39 22.11 262 57.692 253 58.36 12 32.342 304 62.0   Sept. 7 16.042 294 46.09 123 49.43 53 17.30 167 58.82 19 58.20 294 16.651 330 44.86 69 49.96 57 17.320 342 44.49 103 51.75 62 14.29 88 59.472 335 55.90 71 35.779 522 51.    Nov. 6 17.997 322 44.49 103 51.75 62 14.29 88 59.472 335 55.90 71 38.893 79. 56.20 59.    Nov. 6 18.319 298 47.10 209 49.19 51.75 62 14.29 88 59.472 335 55.90 71 36.820 59.    Nov. 6 18.319 298 47.10 209 57 55.53 60 14.29 88 59.472 335 55.90 71 35.779 522 51.    27 17.662 335 45.52 158 52.96 55 16.69 212 14.29 88 59.472 335 55.90 71 35.779 522 51.    27 17.662 335 47.70 209 53.51 48 51.40 209 125 53.51 48 51.40 212 51.75 62 14.29 88 59.472 335 55.90 71 35.779 522 51.    27 17.662 335 45.52 158 52.96 55 16.69 212 60.470 315 53.73 70 37.326 481 51.    27 17.62 335 47.70 209 53.51 48 51.42 50.42			15.016 83	71.00 229	48.75 34	46.70	56.759 12			72.91 157
Juli 9 14.892 3 63.45 283 47.99 7 38.17 327 56.842 105 59.06 5 31.756 137 67.5 67 59.06 5 31.893 196 67.5 67.5 67.5 67.5 67.5 67.5 67.5 67.	Jum	THE REAL PROPERTY.	14.933	68.71 254	48.41	44.15 287				71.34
Juli 9 14.995 46 0.62 283 47.99 7 34.99 334 56.947 140 59.01 6 31.893 196 65.4 14.941 89 60.62 286 47.95 12 31.56 332 57.087 173 58.95 9 32.089 253 663.4 18 15.329 266 52.30 241 48.88 30 25.06 295 57.462 230 58.74 18 32.646 351 28 15.774 268 47.79 170 48.97 46 19.49 219 57.945 274 58.33 32 33.388 428 56.2 17 16.336 315 44.86 69 41.99 219 41.99 219 57.945 274 58.33 32 33.388 428 56.2 17 17 16.981 339 44.49 103 51.75 62 14.29 88 59.472 335 55.90 71 35.79 522 51.    Nov. 6 17.997 322 47.10 209 1251 53.51 48 18.81 264 18.81 266 18.319 298 49.19 251 53.51 48 18.81 266 18.819 298 18.617 267 57.09 285 59.50 9 35.28 19.495 57.495 36.81 29.290 125 60.86 325 55.09 35.28 10.99 41.51 57.51 36.81 57.51 38 38.646 335 54.93 36.81 57.51 38 38.646 335 54.93 36.81 57.51 38 38.646 335 54.93 36.81 57.51 38 38.646 335 55.90 36.81 57.51 38 38.646 335 54.93 36.81 57.51 38 38.646 335 55.90 37 37.326 481 55.33 37.326		100000	14.892 -3	00.17	48.16	211	56.775 67		/3	69.61 185
19		AT MICHAEL	40	03.45 283	47.99 7	3-1			31.756 137	67.76
Aug. 8	Juli	9	14.941 89		47.92 3	24.00	56.947 140	59.01 6	31.893 196	65.85 193
Aug. 8   15.1329   266   52.30   241   48.28   30   49.89   210   48.58   39   47.79   170   48.97   46   19.49   219   57.692   253   58.56   23   32.997   391   58.	3323	10	15.030	57.76	47.05	31.56	57.087	58.05	32.080	63.92
Aug. 8   15.329   2c6   52.30   241   48.28   30   48.58   39   48.97   46   48.97   48			15.160	1 - 4 - 6	48.07	28.24	57.260	58.86	1 20 240	02.02
18	Aug.	OCT O	15.320		48.28	25.06 318	57.462	58.74	22 646	60.18
Sept. 7			15.535	40.80	48.58 30	22.11	57.602	58.56	32.997	58.44 161
Sept.         7         16.042 294 16.336 315 17 16.336 315 16.330 315 16.651 330 315 16.651 330 315 17.30 320 342 321 330 330 330 330 330 330 330 330 330 33		28	15.774 - 69	47.79	48.97	19.49	57.945	58.33		56.83 146
0kt. 7   16.651   339   44.40   44   50   50.53   60   14.54   46   58.820   321   56.55   65   53.475   52.    17   17.320   342   44.49   103   51.75   62   14.29   88   59.472   335   55.90   71   35.779   522   51.    Nov. 6   17.997   322   47.10   209   49.19   251   53.51   48   48.84   227   26   18.819   298   54.40   31   21.45   308   60.470   315   53.73   70   36.820   56.55   53.80   54.40   31   24.53   341   61.078   263   19.290   125   36   323   54.40   31   24.53   341   61.078   263   36.820   37.807   444   52.    16   19.111   179   57.63   323   54.40   31   24.53   341   61.078   263   51.51   38.251   39.243   57.40   39.243   39.243   57.40   39.243   57.40   39.243   57.40   39.243   57.40   39.243   57.40   39.243   57.40   39.243   57.40   39.243   39.243   57.40   39.243   39.243   57.40   39.243   39.243   57.40   39.243   39.243   57.40   39.243   39.243   57.40   39.243   39.243   57.40   39.243   39.243   57.40   39.243   39.243   57.40   39.243   39.243   57.40   39.243   39.243   39.243   39.243   39.243   39.243   39.243   39.243   39.243   39.243   39.243				230 220 200	Section 18 Section 18	Contract of the same	the second second	THE RESERVE TO STATE OF THE PARTY OF THE PAR	Berger Breeze Breeze	PERSONAL PROPERTY.
Okt. 7	Sept.		16.042	46.09 123	49.43 53	17.30 167	58.219 293	58.01 40	33.816 458	55.37 128
Okt. 7   16.981   330   44.04   45   51.13   62   14.08   $\frac{1}{21}$   59.141   331   56.55   65   56.55   65   35.262   517   52.1   51.13   62   14.29   88   59.472   335   55.90   71   35.779   522   51.1   51.13   62   14.29   88   59.472   335   55.90   71   35.779   522   51.1   51.13   62   14.29   88   59.472   335   55.90   71   35.779   522   51.1   51.13   60.142   328   54.46   73   36.820   506   51.1   51.13   60.470   315   53.73   70   37.326   481   51.1   51.14   51.14   5			10.330	44.86 69	49.90 57		58.512 308	57.61 48	34-274 484	54.09 108
Nov. $\begin{array}{cccccccccccccccccccccccccccccccccccc$	01-4	3338.00	10.051 230	-3	50.53 60		58.820 321	57.13 58	34.758	53.01 84
17. 320 342	OKt.		10.981	45	51.13 62		1 131	50.55 65	35.202 517	52.17 59
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		17	17.320	44.49 103	51.75 62	14.29 88	59.472 335	55.90.71	35.779 522	51.58 31
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		27	17.662	45.52	52.37	15.17	50.807	55.10	36.301	51.27 <sub>1</sub>
Dez. 6 18.884 227 54.55 308 54.40 31 27.94 362 61.76 263 38.25 36 19.415 564.11 55.01 9 35.28 36 19.415 64.11 55.01 9 35.28 36.81 57.518 53.96 32.973 60.86 δ, tg δ 1.252 -0.754 2.653 -2.458 1.079 +0.406 1.760 +1	Nov.		11.991	47.10	52.06	16.60	1 100.1/12	54.46		ST.26 -
Dez. 6 18.884 227 54.55 308 54.40 31 21.45 308 61.078 293 52.42 51 38.251 395 53.    16 19.111 179 57.63 323 54.71 21 27.94 362 61.566 181 51.53 22 38.981 262 35.28    26 19.290 125 64.11 55.01 9 35.28 7 61.747 51.31 38.981 262 55.    Mittl. Ort 16.201 64.10 51.75 36.81 57.518 53.96 32.973 60.    sec δ, tg δ 1.252 -0.754 2.653 -2.458 1.079 +0.406 1.760 +1		16	18.310	40.10	53.51	18.81	60.470	53.73	37.326	51.56 62
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		26	18.617	51.70	53.99	21.45	60.785	53.03	37.807	52.18 94
16 19.111 179 57.63 323 60.86 325 64.71 21 54.92 9 55.01 9 35.28 61.566 181 51.53 22 51.51 38 88.981 262 55.63 36 19.415 64.10 51.75 36.81 57.518 53.96 32.973 60.86 δ, tg δ 1.252 -0.754 2.653 -2.458 1.079 +0.406 1.760 +1.6	Dez.	6	18.884	54.55	54.49	24.53	61.078	52.42	38.251	53.12
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			- months	Company of the Compan	Editor Control	I CONTRACTOR OF THE PARTY OF TH	STATE OF THE STATE			Seal District
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			19.111	57.63 323	54.71 21	27.94 362	61.341 225	51.91 38	38.646	54.36
Mittl. Ort     16.201     64.10     51.75     36.81     57.518     53.96     32.973     60.       sec δ, tg δ     1.252     -0.754     2.653     -2.458     1.079     +0.406     1.760     +1.	The state of		19.290	00.00	54.92	31.56	61.566 181		30.901 262	55.88 174
sec 8, tg 8   1.252 -0.754   2.653 -2.458   1.079 +0.406   1.760 +1	1	36	19.415	64.11	55.01	35.28	61.747	51.31	39.243	57.62
sec 8, tg 8   1.252 -0.754   2.653 -2.458   1.079 +0.406   1.760 +1	Mittl	Ort	16.201	64.10	57.75	26.8T	57.518	53.06	32.073	60.91
			With the Court of the							+1.449
w, w   T z, 1			+2.1	-6. <sub>5</sub> .	0.0	-6.6	+3.6	-6.6	+4.9	-6.7
			STATE OF THE PARTY				The state of the s		15 Carried William 195	-0.94

	Sta	282) i Ger	ninorum	285) β Ca	ınis min.	284) Grb 1	308 Caml	286) p Ge	minorum
Ta	ag	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
19.	47	7 <sup>h</sup> 22 <sup>m</sup>	+27°54′	7 <sup>h</sup> 24 <sup>m</sup>	+8° 23'	7 <sup>h</sup> 25 <sup>m</sup>	+-68° 34'	7 <sup>h</sup> 25 <sup>m</sup>	+31° 53'
Jan.	I	26.573 159	20.18	16.933 140	54.42	24.80	37.03 249	42.672 169	31.18 48
	II	26.732 104	20.42 38	T7 072	E2 42		39.52 261	1 10 X1T	31.66 48
	20	26.836	20.80 51	17.163 40	52.58 04	25.27	42.13 264	42.952	32.29 76
	30	26.883 =	21.31 60	17.203 =	ST.OT	$25.31 - \frac{4}{8}$	44.77 256	1 43.005	33.05 83
Febr.	9	26.875 60	21.91 65	17.193 56	51.41 50	25.23 20	47.33 239	43.000	33.88 83
	19	26.815 105	22.56 66	T# T25	rt 08	25.03 31			
März	1	26.710	23.22 62	17.041 127	50.80	24.72	49.72 <sub>211</sub> 51.83 <sub>175</sub>	42.94I 107 42.834 144	34·74 84 35·58 78
	II	26.569 166	23.84 55	16.914 150	50.84	24.33 45	52.58 1/3	1 12 000	36.36 78 36.36 67
11-7-1	21	26.403 180	24.39 46	16.764 162	TO 00	23.88 45	E4 OT -33	42.519 186	37.03 67 37.03 53
	31	26.223 182	24.85 46	16.602 164	51.06	23.39 49	55.78 38	42.333 190	37.56 53
April	10			76.400	25	49		- 133/8	71 71 11 11 11 11 11
April	20	26.041	25.19 <sub>22</sub> 25.41 0	16.438 16.281	51.31 33 51.64	22.90 49	56.16 56.04	42.143 181	37.94 22
	30	25.867 174 25.712 128	$25.41   9$ $25.50   -\frac{9}{2}$		52.05 47	21.96 45	50.04 59	41.962 163	38.16
Mai	10	25 584	25 48	16.141 117 16.024 87	52.52 47	21.56 40	55.45 104	41.799 136	38.21 = 10
	20	07 488		TE.027	52.05	21.24 32	54.41 52.97 <sub>178</sub>	41.663 102 41.561 64	38.11 37.87 36
		50	Mite.	33	39		ALC: NO STATE OF THE PARTY OF T	42.301 64	4 - 4 - 4 - 5 - 6
T	30	25.430 17	25.16 28	15.882 20	53.64 65	21.00	51.19 207	41.497 22	37.51 45
Juni	9	$25.413 \frac{7}{23}$	24.88 33	15.862 =	54.29 69	20.85	49.12	41.475 =	37.00
	19	25.436 64	24.33 37	15.878 53	54.98 72	,20.80 - 5	40.83	41.495 63	30.52
Juli	29	25.500 104	24.10 AT	15.931 87	55.70 73	20.85 5	144.40	41.558 104	33.93 62
Juii	9	25.604 140	23.77 42	16.018 120	56.43 71	21.00 24	41.88 252	41.662	35.30 67
	19	25.744 176	23.35 45	16.138	57.14 68	21.24 33	39.33 252	41.805 178	34.63 69
	29	25.920	22.00	16.289	57.82 60	21.57	36.81 242	41.983 212	33.94 70
Aug.	8	20.127	22.42 50	16.468 204	58.42	21.99	34.39 220	42.195 242	33.24 72
	18	20.302	21.92 54	16.672 229	58.91 25	22.49 56	32.10	42.437 260	32.52
	28	26.623 284	21.38 57	16.901 249	59.26 17	23.05 63	30.00 187	42.706 293	31.79 74
Sept.	7	26.907 303	20.81 61	17.150 267	59.43	23.68 67	28.13 162	42.999 314	31.05 75
	17	27.210 321	20.20 65	17.417 284	FO.4T	24.35 72	26.51 132	43.313 332	30.30
	27	27.531 334	19.55	17.701 297	FO T8	25.07 75	25.10	43.645 347	29.55 75 28.80
Okt.	7	27.865 334	18.86	17.998	58.73 67	25.82	24.20 62	43.992 347	28.80 73
	17	28.210 351	18.17 69	18.305 312	58.06 88	26.59 78	23.58 25	44.350 365	28.08 68
	27	28.561	17.48 66	18.617 313	57-18 104	<sup>27</sup> ·37 <sub>78</sub>	23.33 16	44.715 367	27.40 60
Nov.	6	28.913 346	16.82 60	18.930 313	56.14 118	28.15 75	22.40	15 OX2	26.80
	16	29.259 332	16.22 50	19.239 296	54.96 126	28.90 71	24.06	45.442 347	26.31 49
	26	29.591 310	15.72 38	19.535 276	53.70	29.61 65	25.05 139	45.789 347	25.94 21
Dez.	6	29.901 280	15.34 23	19.811	52.40	30.26 58	26.44 176	46.114 293	25.73 2
	16	30.181 241	15.11 6	20.060	51.13 121	30.84 48	28.20 208	46.407 253	25.71 16
	26	30.422	15.05 1	20.273	49.92 110	31.32 38	30.28 234	46.660 205	25.87 35
e sal	36	30.422 195 30.617	15.16	20.445	48.82	31.70	32.62	46.865	26.22 35
Maria	STORES			Halla College (Black)	CAN CO	0235		State of the last	
Mittl.		26.196	18.64	16.594	51.68	22.95	36.85	42.265	29.93
sec δ,		1.132	+0.530		+0.148		+2.549	CALL TO SEA HOLD TO	+0.622
	a'	+3.7	-7.I		<b>−7.2</b>	and the second second second	<b>-7.3</b>	+3.8	<b>-</b> 7⋅3
. <b>b</b> ,	0	o.oI	-0.94	0.00	-o.93	-0.06	-o.93	-0.02	-0.93

		287) a Gem	inorum¹)	289) 25 M	onocerotis	291) α Can	is min.2)	292) 24	Lyncis
Ta	ıg	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
19	47	7 <sup>h</sup> 31 <sup>m</sup>	+32° o'	7 <sup>h</sup> 34 <sup>m</sup>	-3° 59′	7 <sup>h</sup> 36 <sup>m</sup>	+5° 21'	7 <sup>h</sup> 38 <sup>m</sup>	+58° 50′
Jan.	1	13.580	24-83 46	38.922	24.62	32.012	46.15 125	33.048 258	11.81
	11	13.754 117	25.20	30.060	26.37 161	22.157	44.90	33.306 169	13.78 213
	20	13.871 58	25.91	20 TEO	27.98	32.252 44	12.82	33.475 76	15.91 221
	30 .	13.929	20.05 0	20.TOT =	29.40	$32.296 \frac{44}{5}$	12.03	$33.551 \frac{7}{16}$	18.12
Febr.	9	13.929 54	27.48 87	39.182 9	30.61 98	32.291 51	42.22 71	33.535 103	20.33 211
	19	13.875 103	28.35 86	39.127 95	31.59 75	32.240 91	41.70 35	33.432 181	22.44 193
März	I	13.772	29.21 80	39.032	32.34 51	32.149 124	41.35 18	33.251 245	24.37 ,66
	II	13.630 169	30.01 69	38.906 149	32.85 29	32.025 148	41.17 3	33.006 292	26.03 134
	21	13.461 186	30.70 56	38.757 163	33.14 8	31.877 160	41.14 - ro	32.714 323	27.37
	31	13.275 190	31.20 41	38.594 166	33.22 -	31.717 164	41.24 21	32.391 334	28.32 54
April	10	13.085 182	31.67 24	38.428 160	33.08	31.553 158	41.45 33	32.057 328	28.86
	20	12.903 166	31.91 7	38.268	32.75 52	31.395	41.78	31.729 305	28.99 -
	30	12.737 139	31.98 -	38.121 125	32.23 70	31.252	42.20	31.424 268	28.70 68
Mai	10	12.598 106	31.89	37.996 99	31.53 87	31.131 94	42.71 59	31.156 220	28.02
	20	12.492 69	31.66 35	37.897 68	30.66	31.037 62	43.30 67	30.936 162	26.98 136
	30	12.423 28	31.31 47	37.829 35	29.64 115	30.975 29	43.97 74	30.774 98	25.62 162
Juni	9	12.395 -	30.84	37.794	28.49	30.946 -	44.71 79	30.676 31	24.00 184
	19	12.409 57	30.30 6	37.793 = 33	27.24	30.952	45.50 82	30.645 -8	22.16
	29	12.400	29.69 67	37.826 68	25.90	30.993	46.32 84	30.683	20.17
Juli	9	12.563 136	29.02	37.894 100	24.53	31.068 75	47.16 81	30.789	18.06 216
	19	12.699 172	28.32 72	37-994 131	23.16	31.176	47.97 77	30.961	15.90 217
	29	12.871	27.60	38.125	21.83	31.315	48.74 60	31.196 294	13.73
Aug.	8	13.077 226	26.85	38.284 187	20.59 108	31.482	49.43 56	31.490	11.60
	18	13.313 262	27.00 26.85 77 26.08 78	38.471	19.51 89	31.075	49.99 41	31.837 206	9.55
	28	13.576 288	25.30 80	38.682 234	18.62 65	31.892 239	50.40	32.233 439	7.61 179
Sept.	7	13.864 310	24.50 82	38.916 254	17.97 36	32.131	50.62	32.672 478	5.82 160
	17	14.1/4	23.68	39.170	17.61	32.390	50.62 25	33.150	4.22
	27	14.503 245	22 87	39.441 287	17.56 -	32.005	50.37	33.000	2.83 115
Okt.	7	14.040 255	22.00	39.728	17.85 62	32.955	49.88 74	34.197 556	1.00 86
	17	15.205 365	73	40.026	18.47 95	33.257 308	49.14 97	34·753 <sub>568</sub>	0.82 56
17.30	27	15.570 367	20.54 66	40.331	19.42	33.565 33.875	48.17 117	35.321 569	0.26
Nov.	6	1 15.447	19.88 56	40.030 202	20.67	33.875	47.00	35.890 660	0.03 =
	16	10.200	19.32	40.941	22.17	34.182 307	45.66	1 . (	0.15
24.0	26	10.049	10.90 26	41.233	23.87 184	34.478	44.21	36.450 36.988 503	0.64 8
Dez.	6	16.977 298	18.04 7	41.505 246	25.71 191	34.756 250	42.70 150	37.491 453	1.49 120
	16	17.275 258	18.57	41.751 211	27.62 191	35.006	41.20	37.944 390	2.69 153
40	26	17.533 211	18.70 31	41.962	29.53 185	35.223	39.75	38.334 214	4.22 180
	36	17.744	19.01	42.132	31.38	35.398	38.40	38.648	6.02
	Ort	13.176	23.73	38.539	28.54	31.676	43.12	31.975	12.22
	, tg δ	1.179	+0.625	1.002	-0.070	1.004	+0.094	1.932	+1.654
	a'	+3.8	-7.8	+3.0	<b>—8.0</b>	-+3.2	-8.2	+5.1	-8.4
<i>b</i> ,	b'	-0.02	-o.92	0.00	-o.92	0.00	-0.9r	I —o.o5	-0.91
3.2.1	) Ort d	es helleren Stern	8.						

Ort des helleren Sterns.
 Ort des hellen Sterns; die j\u00e4hrliche Parallaxe (o\u00cd29\u00fc1) ist bereits ber\u00fceksichtigt.

	20/0	294) ж Ge	minorum	295) ß Gem	inorum1)	297) ۲ ۲	Valentia	296) π Gei	
Ta	ıg		Dekl.	AR.	Dekl.	AR.	· · · · · · · · · · · · · · · · · · ·		The same of
201		AR.		-			Dekl.	AR.	Dekl.
19	47	7 <sup>h</sup> 41 <sup>m</sup>	+24° 31'	7 <sup>h</sup> 42 <sup>m</sup>	+28° 9′	7 <sup>h</sup> 42 <sup>m</sup>	-72° 28′	7 <sup>h</sup> 44 <sup>m</sup>	+33° 32′
Jan.	I	15.335 174	37.92 6	4.867 <sub>178</sub>	22.29 17	33.49 7	34.38 373	5.933 192	51.81 50
	II	15.509 174	$37.92 \frac{6}{13}$	5.045 123	22.46	$\frac{33.56}{6} = \frac{7}{6}$	38.11	6.125	52.31 68
	20	TE GOT	37.99 28	10 m 768	22.46 35 22.81 51	33.50 20	AT 82 3/1		52.99 83
	30	15.697 11	38.27	5.235 10	23.32 62	33.30 34	45.40	6.333 74	53.82 93
Febr.	9	$15.708 \frac{11}{41}$	38.68 50	E 245	23.94 69	32.96 <sub>45</sub>	48.77 337	6 247 -	54.75 97
	371619	and the second	50	77		and the second second second		1	100000000000000000000000000000000000000
M:	19	15.667 87	39.18	5.201 91	24.63 73	32.51 56	51.83 269	6.305 93	55.72 97
März	I	15.580 124	39.13 57	5.110 129	23.30	31.95 <sub>64</sub>	54.52 227	6.212	56.69 92
	II	15.456	40,40	4.981 158	20.07	31.31 71	56.79 179	6.078 165	57.61 81
	21	15.305 168	40.85 49	4.823 175	26.72 55	30.60 75	58.58 128	5.913 184	58.42 66
	31	15.137 174	41.34 41	4.648 181	45	29.05 76	59.86 77	5.729 190	59.08 51
April	10	14.963 168	41.75 33	4.467 176	27.72 32	29.09 77	60.63 23	5.539 187	59.59 32
	20,	14.795	42.00	4.291 161	28.04	28.32	$60.86 \frac{-}{31}$	5.352	59.91 13
	30	14.641 131	42.31	4.130	28.23 6	21.51 =2	60.55 83	5.181 147	60.04 =
Mai	10	14.510 103	42.45	3.993	28.29 -6	26.85 66	59.72	5.034 116	59.99 22
	20	14.407 68	$42.50 \frac{3}{3}$	3.886 72	28.23 18	26.19 59	58.39 180	4.918 79	59.77 37
	30	14.339 31	42.47 10	3.814 34	28.05 26	25.60 51 25.09 41	56.59 222	4.839 40	59.40 50
Juni	9 .	14.308 -6	42.37	3.780	27.79 24	25.09	54.37 260	4.799 -	58.90 6r
	19	14.314 45	42.22	3.785	27.45	24.08	51.77	4.801 43	58.29
	29	14.359 83	12.02	3.830 83	27.04	24.37	48.87	4.844 8r	57.60
Juli	9	14.442	41.78 29	3.913 121	20.59 51	24.18 8	45.75 326	4.929 124	56.83 82
	19	14.560 152	41.40	4.034 156	26.08	24.10	42.49 329	5.053 161	56.01 87
15.4	29	14.712	41.10	4.190 187	25.53 59	24.15 16	39.20 324	5.214 195	55.14 80
Aug.	8	14.895	1 40.19	4.377 218	24.94 63	24.31	39.20 324 35.96 307	5.409	54.25 02
	18	15.106 238	40.35	4.595	24.31 6	24.60	32.09 270	3.03 256	53.32
	28	15.344 262	39.85 57	4.839 270	23.64 73	25.00 50	30.10 243	5.892 283	52.38 94
Sept.	7	15.606 284	39.28	5.109	22.91 78	25.50 59	27.67 196	6.175 306	51.42
	17	15.800	38.64	5.400	22.13 gr	20.00	25.71 141	0.401	50.45 06
	27	16.193 303	37.92 79	1 5./11 . 0	21.32 0	26.75	24.30 81	6.809 346	49.49
Okt.	7	1 10.512	1 3/-13 8-	0.034	20.47 0	2/240	23.49 15	7.155 361	48.54
	17	16.845 333	36.28 88	6.381 342	19.60 87	28.23 76	23.34 = 52	7.516 371	47.63 85
	27	17.187 346	35.40 88	6.732	18.73 82	28.99 74	23.86	7.887	46.78 76
Nov.	6	17.533 344	34·5 <sup>2</sup> 85	7.087 355	17.91 76	29.73 74	25.03	0.202	46.02 63
	16	17.877 333	33.67 78	7.439 352	1 1 /+17 (.	30.43 64	26.83 238	8.635 3/3	45.39 48
	26	18.210 333	32.89 67	7.781	16.50 51	31.07	29.21 286	8.998	44.91 20
Dez.	6	18.210 333 18.526 316	32.22 53	7.781 323 8.104 295	15.99 35	31.07 54 31.61 43	32.07 325	9.340 342	45·39 48 44·91 30 44·61 8
	16	18.814 252	31.69 37	8.399 257	15.64 16	32.04 30	CALL COLUMN	The second second	44.53
	26	19.066 208	31.32 37	8.656 213	$15.48 \frac{16}{3}$	32.34 17	35·3 <sup>2</sup> 38.86 35 <sup>4</sup> 37°	9.929 228	44.66
	36	19.274	31.13	8.869	15.51	32.51	38.86 42.56 37°	10.157	44.66 34 45.00
7/5:43		2000	CONTRACTOR OF STREET		5 7 8 7 8	Park Wers			ET TA
	l. Ort	14.994	36.48	4.503	21.15	29.17	44.65	5.526	51.14 +0.663
	, tg δ	1.099	+0.456	1.134	+0.535	3.322	-3.168 $-8.7$	2351 1.16 118	<b>−8.8</b>
	a'	+3.6	-8.6	+3.7	-8.6 -2.00	-0.7 +0.00	-0.90	+3.9 -0.02	-0.90
0,	b'	-0.01	-0.90	-0.02	-0.90	1 +0.09	0.90	STATE OF THE PARTY	

<sup>1)</sup> Die jährliche Parallaxe (o."100) ist bereits berücksichtigt.

		4 2-33/	F = 1 7 5 7				56 - i Ayi	-51-44	
Ta	g	300) Grb 1		303) χ (		305) χ Ge		306) <b>ζ</b>	
		AR.	Dekl.	AR.	Dekl.	AR.	DekL	AR.	Dekl.
194	7	7 <sup>h</sup> 53 <sup>m</sup>	+74° 3′	7 <sup>h</sup> 55 <sup>m</sup>	-52° 50′	8 <sup>h</sup> o <sup>m</sup>	+27° 56′	8 <sup>h</sup> 1 <sup>m</sup>	-39° 50'
Jan.	1	56.25 46	44.36 257	27.353 130	11.50 364	16.275 200	41.06	44.120	61.00
	11	56.71 20	40.93 256	27.483 55		16.475 146	41.13 28	44.265 84	04.3/ 222
	20*)	57.00 13	49.09 285	27:538 -	18.70	16.621 80	41.41 46	44.349 23	07.09 217
-14	30	57.13 4	52.54 282	27.519 92	22.24 226	16.710 31	41.87 60	44.372 = 37	70.86
Febr.	9	57.09 20	55-37 270	27.427 158	25.50 296	$16.741 \frac{3}{23}$	42.47 70	44.335 92	73.81 266
350	19	56.89 35	58.07 246	27.269 216	28.46 259	16.718 72	43.17 76	44.243 141	76.47 230
März	Ι	56.54	00.53	27 052	31.05 216	16.646	43.93 76	44.102	78.77 IOI
	II	56.07 56	02.05	26.788 301	33.21 171	16.532	44.69 72	43.920 214	80.68
	21	55.51 64	04.30	20.407	34.92 122	10.387	45.41 65	43.706 234	82.17 104
	31	54.87 67	05.59 72	20.101 338	36.14 72	16.222, 175	46.06 54	43.472 245	83.21 59
April	10	54.20 67	66.31 19	25.823 339	36.86 20	16.047	46.60 42	43.227 245	83.80 12
	20	53.53 64	$66.50 \frac{13}{34}$	25.404 120	37.06 -	15.0/4 162	47.02	42.982	83.92 = 33
	30	52.89 59	66.16 84	25.155 208	36.75 80	15.712	47.31 15	42.740	83.59 77
Mai	10	52.30 51	65.32	24.847	35.95 128	15.570 115	47.46	42.527 195	82.82
	20	51.79 42	64.01 172	24.568 242	34.67 173	15.455 83	47.48 =	42.332 165	81.62 160
- William	30	51.37 31	62.29 208	24.326 200	32.94 213	15.372 48	47·37 21	42.167 130	80.02
Juni	9	51.06	00.21	24.126	30.81	15.324 11	47.16	42.037 93	70.07 227
	19	50.88 6	57.03 200	23.974	28.34	15.313 28	46.85	41.944 52	75.82 250
11-2	29	50.82 -	55.24 275	23.873 47	25.58	15.341 65	46.45 47	41.892 10	73.32 268
Juli	9	50.89 19	52.49 283	23.820 9	22.61 310	15.406	45.98 53	41.882 32	70.64 279
	19	51.08 32	49.66 285	23.835 65	19.51 313	15.507 136	45.45 60	41.914 74	67.85 280
100	29	51.40	40.81	23.900	1 20.0	15.043 -40	44.85 66	41.9886	65.05 274
Aug.	8	51.84	44.00	24.021	13.32 290	15.811	44.19 71	42.104	62.31 258
	18	52.39 64	41.29	24.197 228	10.42 264	I TO.OTO	43.48 78	42.201	59.73 232
	28	53.03 74	30.74 235	24.425 277	7.78 204	10.230 254	42.70 85	42.458 233	57.41 198
Sept.	7	53.77 82	36.39 208	24.702 321	5.51 182	16.492 279	41.85 90	42.691 268	55.43 156
	17	54.59 89	34.31	1 25.024	3.69 129	10.771 300	40.95 96	42.959 208	53.87 106
01.	27	55.48 95	32.52	25.383	2.40	17.0/1 321	39.99 100	43.257 222	52.81 52
Okt.	7	56.43 98	31.08 106	7.5-7.7/	1.70 7	17.392 338	38.99 102	43.580	52.29 6
	17	57.41 101	30.02 64	20.100 425	1.63 58	17.730 350	37.97 103	43.923 355	52.35 66
27	27	58.42 <sub>101</sub>	29.38 19	26.611 425	2.21 121	18.080	36.94 99	44.278 359	53.01 125
Nov.	6	1 59.43	29.19 26	1 2/.030 412	3.42 182		35.95 93	44.637 355	54.26 180
	16	60.43 96	29.45 74	27.449 389 27.838 351	5.24 237	1 7 77	35.02 81	44.992 000	56.06 229
Dez.	26 6	01.39 80	30.19	1 27 323	7.01	1 14.14/	34.21 67	45.331 339	58.35 271
Dez.		62.28 81	31.40 164	20.109 304	10.45 321	19.403 311	33.54 50	45.045 278	61.06 303
	16	63.09 69	33.04 204	28.493 244	13.66 348	19.794 276	33.04 29	45.923 234	64.09 326
	26	63.78	35.08 237	28.737. 176	17.14 363	20.070 233	32.75 8	40.157 182	67.35 337
7	36	64.33	37.45	28.913	20.77	20.303	32.67	46.339	70.72
Mittl.		53.52	45.98	25.824	21.54	15.939	40.29	43.204	70.17
sec δ,		3.642	+3.502	1.656	-1.319	1.132	+0.530	1.303	0.835
a,		+7.2	<b>−9.6</b>	+1.5	-9.7	+3.7	-10.0	+2.1	-10.2
<i>b</i> ,	b'	—o.11	-o.88	+0.04	-o.88	-0.02	- o.8 <sub>7</sub>	+0.03	- o.86

<sup>\*)</sup> Bei Stern 305) und 306) lies Jan. 21.

		307) 27	Lyncis	308) p	Puppis	309) y V	elorum	311) 20	Punnis
Ta	ıg	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
		The state of the s				A COURT OF THE PARTY OF THE PAR	200		
19	47	8 <sup>h</sup> 4 <sup>m</sup>	+51°39′	8 <sup>h</sup> 5 <sup>m</sup>	-24°8′	8 <sup>h</sup> 7 <sup>m</sup>	-47° 10′	8 <sup>h</sup> 10 <sup>m</sup>	-15° 37'
Jan.	1	29.485 266	39.59 144	17.698	53.64 283	55.070	35.89 355	54.151 166	31.92 245
	II	29.751	41.03 167	17.853 104	56.47 273	CC OOT	39.44 353	54.317 117	34-37 235
	21	29.943 115	42.70 183	T7 OF7	59.20 257	55.305 16		CA 424	36.72 217
	30	<sup>22</sup> 30.058 36	44.53	$18.008 \frac{51}{2}$	61.77 234	43 55.32T -	46 28 341	54·434 65 54·499 14	38.89 196
Febr.	9	30.094 30	46.44	т8.006	64.11 207	55.272 111	49.59 321	$54.513 \frac{14}{34}$	40.85 170
	314	41		52		30 30 31 30		37	14 14 15 E
M2	19	30.053	48.35 183	17.954 97	66.18	55.161 167	52.51 256	54.479 77	42.55 141
März	I	29.942 169	50.18 165	17.857 97	67.94 142	54.994 212	55.07 218	54.402	43.96 111
	II	29.773 215	51.83 142	17.725 161	69.36	54.782 247	57.25 173	54.288	45.07 8r
	21	29.558 246	53.25 113	17.564 180	70.42 69	54.535 271	58.98 126	54.147 161	45.88 51
	31	29.312 263	54.38 79	17.384 188	71.11 33	54.264 285	60.24 79	53.986 169	46.39 19
April	10	29.049 264	55.17 44	17.196 188	71.44	53.979 288	61.03 29	-53.817 170	46.58 10
	20	28.785	55.61 8	17.008	71.41 39	53.691 279	$61.32 \frac{-9}{20}$	53.647 162	46.48 39
	30	28.533	55.69 =	16.828	71.02 74	53.412 263	61.12	53.485	46.09 66
Mai	10	28.307	55.41 6	10.005	70.28	53.149 220	60.45	53.338 126	45-43 93
	20	28.116	54.80	16.523 115	69.22	52.910 208	59.31 157	53.212 101	44.50 117
Tille	20	07 068	53.88	-6 100				53.111 71	The steel
Juni	30 9	27 870	Fa 68	16.324	67.86 <sub>163</sub> 66.23 <sub>186</sub>	52.531	57·74 <sub>196</sub> 55·78 <sub>231</sub>	53.040	43·33 <sub>137</sub> 41.96 <sub>156</sub>
buin	19	07 804	FT 06	T6 270	64.37 204	52.400 86	53.47 231	F2 000 T	40.40. 171
	29	27 822	49.65 176	16.254 -	62.33 217	52.314 30	50.88 281	52,000	38.69 179
Juli	9	27.895 116	47.89 185	T6 27T	60.16 223	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	48.07 293	52.0T4	36.90 184
				54		and the second second		3/	Street Sto
	19	28.011	46.04 193	16.323 86	57.93 223	52.283 56	45.14 298	53.071 88	35.06 182
	29	20.170	44.11	16.409	55.70 274	52.339 106	42.16 294	53.159 119	33.24 174
Aug.	8	28.394 262	42.10	16.529	53.56	52.445	39.22	53.278 149	31.50 159
	18	28.050	40.22	16.681 183	51.57 106	52.598	30.43 254	53.427 178	29.91 139
	28	28.961 343	38.32 183	16.864 213	49.81 146	52.798 243	33.89 221	53.605 206	28.52 111
Sept.	7	29.304 379	36.49 172	17.077 240	48.35 109	53.041 284	31.68	53.811 231	27.41 78
	17	29.683 411	34.77	17.317 265	47.26 66	F2 20F	29.89 179	54.042 255	26.63 41
	27	30.094 439	33.18	1 17.582	46.60	53.645 350	28.61 71	54.297 276	26.22
Okt.	7	30.533 462	31.75 122	17.809	46.41 31	53.995 274	27.90 11	54.573 205	26.22 44
	17	30.995 478	30.53 98	18.173 304	46.72 80	54.369 388	27.79 =	54.868 307	26.66 87
	0.11	TOWNS OF THE PARTY OF THE PARTY.	156 126 127	78 400				The second second	27 52 0
Nov.	<sup>27</sup> 6	31.473 488	29.55 71 28.84	18.490 323	47.52 128	54.757 393	28.31 115	55.175 315	27.53 <sub>128</sub> <sub>28.81 <sub>166</sub></sub>
1107.	16	31.961 487 32.448 487	108 10 44	18.813 322	48.80	55.150 387	29.46	55.490 316 55.806 309	30.47 198
	26	32.925 477		19.135 312	50.53 212	55.537 <sub>369</sub> 55.906 <sub>341</sub>	31.19 <sub>227</sub> 33.46 <sub>274</sub>	56.115 294	32.45 223
Dez.	6	33.379 454	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 -7.44/ 201	52.65 244		36.20 311	56.409 269	34.68 241
		100 K 100 / 1 100 100	20.39 60		55.09 267	THE RESERVE AND ADDRESS OF THE PARTY OF THE	4 5 5 3 5 5	The second section is a second	2000
	16	33.799 371	29.19 94	20.008 231	57.76 281	56.548 251	39.31 42.68 353 46.21	56.678 237	37.09 250
	26	34.170 312 34.482	30.13 125	20.239 188	60.57 286	56.799 102	42.68 353	56.915 196	39.59 251
	36	34.482	31.38	20.427	63.43	56.991	46.21	57.111	42.10
Mitt	L Ort	28.747	40.08	17.158	61.07	53.905	46.36	53.744	38.41
	$\delta$ , $\log \delta$	1.612	40.98 +1.264	1.096	-0.448	1.471	—I.079	1.038	-0.280
	a'	+4.5	—10.4	+2.6	—I0.4	+1.9	-1o.6	+2.8	-1o.8
	b'	-0.04	- o.86	+0.02	- o.85	+0.04	- o.85	+0.01	— o.84

Ta	20	310) Br 11	47 Caml	312) β (	Cancri.	314) 31	Lyncis	315) ε C	arinae
1723	~b	AR.	Dekl.	AR.	Dekl.	AR.	Dekl,	AR.	Dekl.
19.	47	8 <sup>h</sup> 12 <sup>m</sup>	+75° 55′	8 <sup>th</sup> 13 <sup>ma</sup>	+9° 20′	8 <sub>p</sub> 10 <sub>m</sub>	+43° 21'	8 <sup>h</sup> 21 <sup>m</sup>	-59° 19′
Jan.	ı	59.37	16.13	38.769 188	63.97	13.334 255	33.98 89	27.496	65.13 371
	II	בט טב	18.64 275	38.957	62.85	13.589	34.87	27 671	68.84 376
	21	60.34	21.39 290	39.096 89	61.02	13.782 126	36.01 134	27.766	
	30	60.55 2	24.29 291	39.185 38	6T T8 /4	13.908 57	37.35	27.771 3	76.30
Febr.	. 9	$60.57 \frac{2}{17}$	27.20 283	$39.223 \frac{36}{12}$	60.64 54	13.965 10	38.82	27.691 159	$79.83 \frac{353}{329}$
	19	60.40	30.03 263	39.211	60.28	13.955 71	40.36	27.532 230	0
März	ī	60.07	32.66	20.154	60.11 2	13.884	41.90	27.302 291	86.08 258
	II	59.58 60	34.98 193	39.060 94	60.09 =	13.760 166	43.35 130	27 011	88 66
	21	58.98 69	36.91 147	38.936	60.19 21	13.594 196	44.65 110	26.672 339	90.80 214
	31	58.29 74	38.38 96	38.793	60.40 30	13.398 211	45.75 85	26.297 375 26.297 396	92.47
April	10	57.55	39.34 42	38.640	60.70	13.187 216	46.60 .	25.901 406	02.64
5 08	20	56.78	$39.76 \frac{42}{13}$	38.487	61.06	12.971 208	47.18 30	25.495 403	93.04 65
	30	56.04	39.63 65	38.342	61.48 46	12.763 188	47.48	25.002	04.41
Mai	10	55.34 63	38.98	38.212 108	61.04	12.575 161	47.48 29	24.705 363	94.02
	20	54.71 52	37.83 160	38.104 81	62.44 53	12.414 126	47.19 54	24.342 329	93.11 91
	30	54.19	36.23 200	38.023	62.07	12.288 87	16.65	24.013 286	91.72 184
Juni	9	5278 41	34.23 233	37.970 21	62 52 33	TOPOT	45.86 79	23.727 237	89.88
1	19	52.40	31.90 260	37.949 =	64.08	12.157 44	44.86	23.490 182	87.64 258
	29	53·49 <sub>15</sub> 53·34 <sub>1</sub>	29.30	37.061	64.64	T2 T58	43.69 132	23.308	85.06 286
Juli	9	53.33 14	26.51 292	38.005 44	65.20 51	12.203 45	42.37 145	23.186 58	82.20 305
	19	53.47 27	23.59 298	38.080	65.57	12.293	40.92	23.128 8	79.15 315
	29	E271	20.61	38.185	66.17 46	12.425	39.39 160	22 726	70.00
Aug.	8	EA.TE T	17.64 291	38.319 163	66.55 26	12.598 212	37.79 163	22 211 /3	72 85 315
	18.	54.69 65	14.73 278	38.482	66.81	12.810	36.16	23.354	69.80
	28	55.34 77	11.95 259	38.671 214	66.93 =	13.059 283	34.51 165	23.563 273	66.95 254
Sept.	7	56.11 86	9.36 236	38.885 238	66.88	13.342 314	32.86 161		64.41 213
	17	56.07	7.00 207	39.123 260	66.64		31.25	23.836 24.168 332 385	62.28 164
	27	57.92 103	4.93 173	39.383	66.19 66	T4 007	29.69	24.553 429	60.64
Okt.	7	58.95	3.20 135	39.663	65.53 00	14-372 394	28.22	24.982	59.57 44
	17	60.03	1.85 93	39.961 312	64.65	14.766 412	26.86	25.445 485	59.13 =
	27	61.14	0.92	40.273 321	63.58	15.178 424	25.66	25.930	59.34 87
Nov.	6	02.27	0.45 47	40.594	62.34	1 15.002	24.65 79		60.21
	16	63.40	0.46	40.918	60.97	10.030	23.86 79	26.908 485 26.908 463	61.72
	26	64.49 103	0.96	40.594 324 40.918 320 41.238 307	59.52 147	1 10.474 1-0	23.33 24	27.371 425	63.83 264
Dez.	6	65.52 95	1.95	41.545 286	58.05	16.862 381	23.09 -	27.796 372	66.47 308
	16	66.47 82	3.42 191	41.831 256	56.60 136	17.243	23.16	28.168 306	69.55
	26	67.29 68	5.33 229	42.087	55.24 124	17.585 342	23.55 68	20.474 221	72.97 265
A Property	36	67.97	7.62	42.304	54.00	17.879	24.23	28.705	76.62
Mittl	l. Ort	56.23	18.95	38.512	61.05	12.833	35.35	25.664	78.00
	, tg δ	4.111	+3.988	1.013	+0.165	1.375	+0.944	1.961	-1.687
	, a'	+7.5	-11.0	+3.3	—II.0	+4.1	-11.4	+1.2	-11.6
	b'	-0.15	- o.84	-0.01	- o.83	-0.04	- o.82	+0.07	- o.82

		318) & C	hamael.	316) Br 119	7 Hydra	317) o Ur	sae maj.	320) Grb 12	150 Lvnx
Ta	ıg	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
194	47	8h 22m	-77° 18′	8 <sup>h</sup> 23 <sup>m</sup>	-3° 43′	8 <sup>h</sup> 25 <sup>m</sup>	+60° 53'	8 <sup>h</sup> 29 <sup>m</sup>	+38° 11′
Jan.	I	21.91	3664 <sub>367</sub>	1.002	51.17 188	53.77 35	47.57	28.979 252	57.88
	II	22.15 5	40.31	1.186	53.05 174	54.12 27	49.34 205	29.231	58.40 78
	21	22.20 14	44.08	27 1.324 88	54.79 156	- 54-39 17	51.39 224	2829.425 132	59.18 70
	30	22.00 32	47.83 264	1.412 38	50.35	54.56	53.03	29.557 68	60.19
Febr.	9	21.74 49	51.47 343	1.450 -	57.69 112	54.63 - 3	55.98 236	29.625 6	61.37 128
	19	21.25 64	54.90 314	1.439 55	58.81 87	54.60 12	58.34 226	29.631	62.65
März	1	20.61 78	50.04	1.384	59.68 64	54.48 10	60.60	29.579 103	63.97 129
	II	19.83 88	00.83	1.292	60.32	54.29 26	02.08	29.476	05.20
	21	18.95 96	03.21	1.170	60.73 19	54.03 31	04.48	29.333	66.46
	31	17.99 102	05.14	1.029	60.92 -	53.72 34	65.95 107	29.161 189	67.52 86
April	10	16.97 105	66.57	0.876	60.91	53.38 34	67.02 64	28.972	68.38 64
	20	15.92 ros	67.49 38	0.722	60.70 39	53.04	67.66 20	1 20.777 00	69.02
	30	14.87 103	$67.87 \frac{3}{15}$	0.574 135	60.31 56	52.70 22	$67.86 \frac{2}{23}$	28.589 173	69.43 15
Mai	10	13.84 99	67.72 68	0.439 115	59.75 71	52.30 28	67.63 66	20.410	69.58 =
	20	12.85 92	67.04 118	0.324 gr	59.04 86	52.10 24	66.97 105	28.267 118	69.49 32
	30	11.93 83	65.86 167	0.233 64	58.18 98	51.86 18	65.92	28.149 84	69.17
Juni	9	II.IO 72	64.10	0.169 35	57.20 108	51.68	64.52	28.065	08.64
	19	10.38 60	62.08	0.134 5	56.12	51.57 5	62.81	28.020 6	67.90
	29	9.78 46	59.00	0.129 26	54.96 120	51.52 -	00.04	28.014 =	67.00
Juli	9	9.32 30	56.80 303	0.155 56	53.76 121	51.54 8	58.66 232	28.049 74	65.96
	19	9.02 14	53.77 318	0.211 87	52.55 117	51.62	56.34 243	28.123	64.79 128
	29	$8.88 - \frac{1}{3}$	50.59 323	0.298	51.38 100	51.77 22	53.91	28.237	63.51
Aug.	8	8.91 20	41.30 316	0.414	50.29 97	51.99 28	51.440	20.307	62.16
	18	9.11 36	44.20 300	0.558	49.32 78	52.27 33	48.96	28.574	00.73
	28	9.47 52	41.20 272	0.729 197	48.54 56	52.60 33	40.52 234	28.794 253	59.20 150
Sept.	7	9.99 67	38.48 235	0.926 223	47.98 30	52.99 44	44.18 221	29.047 284	57.76
	17	10.66	30.13 -0-	1.149 246	47.68	53.43 48	41.97 203	20.33I	56.24
	27	11.45 go	34.26	I.395	47.68	53.91 52	39.94 181	29.044	54.73 148
Okt.	7	12.35 97	32.93	1.664	48.01 66	54.44	38.13	29.903 262	53.25 141
	17	13.32 101	32.22 6	1.951 303	48.67 98	54.99 59	36.58 135	30.345 382	51.84 132
	27	14.33 102	32.16 61	2.254 312	49.65 129	55.58 60	35·34 go	30.727 395	50.52. 118
Nov.	6	15.35	32.77	2.566 317 2.882	50.94	56.18	34.44 51	31.122 401	40.34
	16	10.34	34.04 188		52.49 177	56.78 60 57.38 57	33.93 10	31.523 400	48.33 79
	26	1 1.4/ 82	35.92	301	34.20 102	31.30 57	33.83 32	31.923 387	77.34 55
Dez.	6	18.09 69	38.36 292	3.497 281	56.18 200	57.95 54	34.15 75	32.310 365	46.99 26
	16	18.78 53	41.28 331	3.778 251	58.18 202	58.49 48	34.90 116	32.675 331	46.73
	26	19.31 36	44.59 200	4.029 214	60.20	58.97 <sub>41</sub> 59.38	36.06	33.000 287	46.76
7 Y 1 1 1 1	36	19.67	48.16	4.243	62.17	59.38	37.59	33.293	47.08
	. Ort	16.28	51.04	0.726	56.19	52.65	50.63	28.588	59.06
	, tg δ	4.554	-4.442	1.002	-o.o65	2.056	+1.796	1.272	+0.787
	a'	-1.8	-rr.7	+3.0	11.7	+5.0	-11.9	+3.9	-12.2
<i>b</i> ,	b'	+0.17	- o.81	0.00	- o.81	-0.07	— o.8o	—o.oʒ	— o.79

Ta	ı.e	321) ŋ	Cancri	1227) o V	elorum	327) α I	Pyxidis	326) 8 0	Cancri
	~o	AR.	Dekl.	AR.	Dekl	AR.	Dekl.	AR.	DekL
19	47	8 <sup>b</sup> 29 <sup>m</sup>	+20° 37′	8 <sup>h</sup> 38 <sup>m</sup>	-52°43'	8 <sup>h</sup> 41 <sup>m</sup>	-32° 59′	8 <sup>h</sup> 41 <sup>m</sup>	+18° 20′
Jan.	ı,	38.983 217	22.51	47.724 <sub>201</sub>	45.11 362	28.219 192	28.90 317	40.713 224	62.91
	II	39.200 167	22.00	47.925 128	48.73 362	28.411	32.07 317	40.937	60.10
	21	20 267	21.70 8	18 052	52.42 364		35-24 306	ATTTA	6T 7T 40
1	30*)	2920 48T	27.62	48 TO7 -	56.06 349	28.634 26	38.30 288	AT 220 123	6T 45
Febr.	9	00 F4T	21.75	48.087 89	59.55 327	28.660 =	41.18 263	41.310 18	61.40 5
	500	134 mm - 2	-9	09					*4
März	19	39.548 42	22.04 42	47.998 153	62.82	28.631 78	43.81	41.328 31	61.54 29
Marz	I	39.506 84	22.46	47.845 208	65.79 261	28.553 120	46.15 200	41.297 73	61.83 41
	21	39.422	22.97 56	47.637 252	68.40 219	28.433 155 28.278 180	48.15 162	41.118	62.73 49
	31	39.304 140	23.53 57 24.10	47.385 286	70.59 175	28.098 197	49.77 <sub>124</sub> <sub>51.01 82</sub>	10.086	62 26 33
	3-	39.164 154	55	47.099 308	72.34 127		51.01 83	14/	24
April	10	39.010 158	24.65 51	46.791 319	73.61	27.901 203	51.84 41	40.839 153	63.80
	20	38.852	25.16	40.4/2 270	74.38 26	27.698	52.25	40.080	64.32 48
	30	38.700 128	25.61	46.153	74.64 = 23	27.497	52.25 40	40.537 137	64.80
Mai	10	38.562 118	25.98	45.044 200	74.41	27.300 176	51.85 79	40.400	65.23 36
	20	38.444 93	26.28	45.554 265	73.69 121	27.130	51.06 117	40.281 96	65.59 30
	30	38.351 62	26.50	45.289 232	72.48 165	26.976 127	49.89 150	40.185 60	65.89
Juni	9	38.288 31	26.63 6	45.057 193	70.83 204	26 840	48.39 181	40.116	66.12 16
	19	$38.257 \frac{31}{1}$	26:69 -	44.864 149	68.79 239	26.750 66	46.58 206	40.077 8	66.28
	29	38.258	26.68	44.715 102	66.40 267	26.684 22	44.52	40.069 =	66.37 2
Juli	9	38.292 67	26.59 9	44.613 51	63.73 287	$26.652 \frac{3^2}{3}$	42,26 239	40.091 54	66.39 6
	-		-/-						
	19	38.359 99	26.42 25 26.17 24	44.562	60.86	26.655 39	39.87 245	40.145 86	66.33 15
Aug.	29 8	38.458 129 38.587 150	25.83	44.563 57	57.87 302	26.694 76	37.42 244	40.231	65.94 26
mug.	18	28 746 -39	1 44	44.620 113	54.85 294	26.770 113	34.98 233	40.490	65 58
	28	38.933 214	25·39 55 24.84 67	44.733 167 44.900 221	51.91 276	26.883 150 27.033 186	32.65 214	10 660	65 10
	20		24.04 67	Maria and the same	49.15 248		30.51 187	201	02
Sept.	7	39.147 241	24.17 79	45.121 273	46.67 211	27.219 220	28.64 151	40.863 227	64.48 76
	17	39.388 265	23.38 92	45.394 220	44.56	27.439 254	27.13	41.090	63.72 gr
01.	27	39.653 289	22.46	45.714	42.92	27.693 -0.	26.04 60	41.343 278	62.81 105
Okt.	7	39.942 309	21.42 115	46.075	41.82 50	27-077	25.44 7	41.621	61.76
	17	40.251 326	20.27 124	46.470 419	41.32 -	20.200 329	25.37 47	41.921 318	60.57 129
	27	40.577 338	19.03 128	46.889 433	41.45 77	28.615 343	25.84 102	42.239 333	59.28
Nov.	6	40.915 345	17.75	47.322 433	12 22 11	28.958 343	20.80	42.5/4	57.91
	16		16.46	47.322 434 47.756 434	12 62 140	28.958 29.305 343	28.40 203	42.913 342	56.50 139
	26	41.603 343	15.20 117	40.1/1 206	45.61 252	29.648 343	30.43	43.455 224	55.11 133
Dez.	6	41.936 333	14.03 104	48.573 357	48.13 297	29.648 328 29.976 304	32.87 277	43.589 316	53.78 122
	16	42.250 285	12.99 88				1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		52.56 106
	26	42.535 285	12.11 67	48.930 306 49.236 245	51.10 331	30.280 269	35.64 301 28.65	43.905 290	1
	36	42.782	11.44	49.481	54.41 354 57.95	30.549 <sub>226</sub> 30.775	38.65 316 41.81	44.195 <sub>254</sub> 44.449	50.63
1000		and same	The second second		13133	3-113	2000	11117	10 0
	L Ort	38.745	21.32	46.477	58.60	27.660	39.59	40.513	61.50
	$tg \delta$	1.068	+0.376	1.651	-1.314	1.192	<b>-0.</b> 649.	1.054	+0.332
	a'	+3.5	-12.2	+1.7	-12.8	+2.4	-13.0	+3.4	-13.0
b,	b'	-0.02	<b>- 0.79</b>	+0.06	- 0.77	+0.03	<b>— 0.76</b>	-0.01	<b>- 0.76</b>

<sup>\*)</sup> Bei Stern 1227), 327) und 326) lies Jan. 31.

		328) i	Cancri	334) Ç I	Hydrae	336) 108 (	G. Carinae	335) i Un	sae mai.
Ta	g	AR.	Dekl.	AR.	Dekl.	AR.	Dekd.	AR.	Dekl.
19	47	8 <sup>h</sup> 43 <sup>m</sup>	+28° 57′	8 <sup>h</sup> 52 <sup>m</sup>	+6° 8′	8 <sup>h</sup> 53 <sup>m</sup>	-60° 26′	8 <sup>h</sup> 55 <sup>m</sup>	+48° 14′
Jan.	I	29.879 244	18.39	35.730 219	57.91 144	52.51 24	13.94 365	35.822 216	60.84 89
	II	30.123	T8 20 -	25 040	56.47	52.75 16	117.59 - 0	- 2 0 3.0	61.73 122
	21	30.316	18.46	36.123 125	55.22 105	52.91 7	21.3/0	36.138 <sub>253</sub> 36.391 <sub>183</sub>	62.95 149
	31	30.453 79	18.86 61	36.248	54.17 83	52.98 -		36.574 109	04.44
Febr.	9	30.532 22	19.47 77	3 36.322 74	53.34 61	4 52.96	28.85 370	4 36.683 35	66.14 182
	T0				0000000	100000000000000000000000000000000000000		=======================================	
März	19	30.554 30	20.24 88	36.346	52.73 39	52.85 17	32.37 325	36.718 36.684 37	67.96 186
1/10/12	II	30.524 77	22.05 93	36.323 63 36.260 07	52.34 <sub>20</sub> 52.14 <sub>2</sub>	52.68 25	35.62 292	36.084 97	69.82 181
	21	30.447 115 30.332 143	22 08 93	26 162 9/	52.14 3	52.43 31 52.12 24	38.54 253 41.07 209	36.587 149 36.438 180	71.63 168
	3I	30.189 160	23.86	26.042	52.22	51.78 34	43.16 209	36.249 217	73·3 <sup>1</sup> <sub>14</sub> 8 74·79 <sub>123</sub>
	3-	100 100 100 100 100	1.9	13/	24			WITHOUT AND THE REAL PROPERTY.	TOTAL PROPERTY.
April	10	30.029 166	24.65 67	35.905 143	52.46	51.40 40	44.78	36.032 230	76.02 92
	20	29.863 164	25.32 51	35.762	52.80 43	51.00 41	45.89 60	35.802	76.94 59
Mo:	30	29.699 152	25.83 35	35.620 132	53.23 49	50.59 40	46.49 8	35.571 220	77.53 24
Mai	10	29.547 132	26.18 19	35.488	53.72 55	50.19 38	46.57 - 45	35.351 200	77.77 10
	20	29.415 108	26.37 3	35·37 <sup>1</sup> 98	54.27 60	49.81 36	40.12 96	35.151 170	77.67 44
	30	29.307 78	26.40	35.273 73	54.87 62	49-45 32	45.16	34.981	77.23 75
Juni	9	29.229 46	26.27 28	35.200 47	55.49 65	49.13 20	43.72 -0-	34.847 95	76.48
	19	29.183 13	25.99 42	35.153 20	56.14 65	48.84	41.85	34.752 51	75.44 120
	29	29.170 =	25.57 54	35.133 -9	56.79 64	48.61	39.58	34.70I 6	74.15
Juli	9	29.192 57	25.03 66	35.142 38	57.43 60	48.43 11	36.98 285	34.695 -	72.63
	19	29.249	24.37	35.180 <sub>66</sub>	58.03	48.32 6	34.13 303	34.735 85	70.92 186
	29	29.339 90	23.60 77	25 246	58.57	48.26 -	31.10 310	34.820	69.06 198
Aug.	8	29.461	22.73 97	35.34I <sub>123</sub>	50.02	48.28	28.00 308	34.949	07.08
	18	29.616 .06	21.70	35.464	59.35 18	48.36	24.92	35.123	65.03
	28	29.802 216	20.69 115	35.615 178	59.53 -	48.52 23	21.98 271	35.338 257	62.92 213
Sept.	7	30.018	19.54 124	35.793 205	59.52	48.75 29	19.27 237	35.595 295	60.79 211
	17	30.262 244	18.30	35.998 205	50.20	49.04 35	Th on	1 25 X00	58.68 206
	27	30.535 299	16.98	36.230 257	r8 8r 43	49-39 42	T4 07	36.223 333 368	56.62 196
Okt.	7	30.834	15.62	36.487 280	58.16	10 XT	13.57 82	36.591 400	54.00 -82
	17	31.156 343	14.22	36.767 300	57.22 94	50.26 45	12.75 18	36.991 427	52.83 165
	0.5		7.000		110	and the second second second	702 000		51.18 142
Nov.	<sup>27</sup> 6	31.499 31.856 357	12.82	37.067 315	56.06 138	50.75 51	12.57 49	37.418 27.865	49.76 115
2101.	16	31.850 367	11.45 129 10.16	37.302 324	54.68	51.26 51	7 4 00	37.865 461 38.326 464	48.61 84
	26	32.223 368 32.501	0.00	37.382 324 37.706 327	53.13 166	51.77 50 52.27	14.20 176 15.96 234	38.790 464	1777
Dez.	6	32.591 <sub>360</sub> 32.951 <sub>342</sub>	9.00	38.033 321 38.354 306	51.47 <sub>173</sub> 49.74 <sub>173</sub>	52.27 47 52.74 43	18.30 284	39.245 455	47.28 49
			78	CONTRACTOR OF THE PARTY OF THE	CONTRACTOR OF THE PERSON	State August State			
	16	33-293 314	7.22 55	38.660 <sub>280</sub>	48.01 167	53.17 37	21.14 325	39.680 400	47.16
	26	33.607 275	6.67 29	38.940 247	46.34 156	53.54 29	24.39 354	40.080 354	47.43 65
1000	36	33.882	6.38	39.187	44.78	53.83	27.93	40.434	40.00
Mittl.	. Ort	29.625	18.73	35.574	54.32	50.872	29.52	35.300	64.23
sec δ,		1.143	+0.553		+0.108	2.027	-1.763	1.502	+1.120
a,	a'	+3.6	-13.1	+3.2	-13.7	+1.4	-13.8	+4.2	<b>—13.9</b>
<i>b</i> ,	<i>b'</i>	-0.02	<b>- 0.76</b>	0.00	— o.73	+0.08	- o.73	-0.05	- o.72

Tr.		337) a	Cancri	339) Br 12	68 Lynx	338) > Ur	sae maj.	341) × Urs	sae maj.
Та	g	AR.	Dekl.	AR.	Dekl	AR.	DekL	AR.	Dekl.
194	17.	8 <sup>h</sup> 55 <sup>m</sup>	+12° 3′	8 <sup>h</sup> 57 <sup>m</sup>	+41° 59′	8 <sup>h</sup> 57 <sup>m</sup>	+67° 49′	9 <sup>h</sup> 0 <sup>m</sup>	+47° 21'
Jan.	r	35.548 228	53.28 113	12.769 293	35.69 54	49.26	72.04 181	1.451 318	60.02 82
	II	35.776	52.1.5 92	13.062	36.23 86	49.76	73.85 218	1.709	60.84
	21	35.959 122	51.23 69	13.297	37.09	50.15 27	76.03	2.020 ,00	01.99
	31	36.092 8r	50.54 47	13.408 105	38.23	50.42	78.47	2.214	03.42
Febr.	9	36.173 <sub>30</sub>	50.07 25	13.573 38	39.58 149	50.57 3	81.08 268	2.329 42	65.07 178
	19	36.203	49.82 6	13.611 25	41.07	50.60.	83.76 263	2.371 26	66.85 183
März	1	36.186	49.76 =	13.586	42.04	50.51	86.39	2.345 88	00.00
	II	36.126	49.86	13.505 128	44.19	50.31	00.00	2.257 140	70.48 168
	21	36.031	50.10	13.377 164	45.67	50.02	91.07 187	2.117 180	72.16
	3 <b>I</b>	35.911 136	50.44 41	13.213 188	47.00 113	49.05 42	92.94 146	1.937 208	73.66
April	10	35.775 143	50.85 45	13.025 200	48.13 89	49.23	94.40 100	1.729 222	74.91 <sub>96</sub>
	20	35.632	51.30 48	12.825	49.02 61	40.70	95.40 52	1.507	75.87 64
	30	35.489	51.78	12.624	49.63 32	40.33	95.92 2	1.283	76.51 30
Mai	10	35.356 118	52.27 49	12.434	49.95 3	47.89	95.94 47	1.008	76.81
	20	35.238 99	52.76 47	12.202 146	49.98 =	47.47 36	95.47 93	0.873 168	76.77 37
	30	.35.139 74	53.23 45	12.116	49.73 53	47.11	94.54 136	0.705 133	76.40 69
Juni	9	35.065	53.68 43	12.003 78	49.20 78	46.80	93.18	0.572 95	75.71 98
	19	35.018 20	54.10	11.925	48.42	40.50	91.43	0.477 53	74.73 123
	29	34.998 =	54.49 22	11.885	47.41	46.40 8	89.35	0.424 9	73.50 146
Juli	9	35.008 38	54.82 28	11.885 40	46.20 138	46.32 -	86.98 237	0.415 =	72.04 165
	19	35.046 <sub>68</sub>	55.10 19	11.925 80	44.82 153	46.33	84.39 275	0.450 80	70.39 181
5 3	29	35.114 96	55.29 9	12.005	43.29 16	40.42	01.04 006	0.530	68.58
Aug.	8	35.210 125	55.38 2	12.124	41.64	40.59	78.78 201	0.653	00.04
	18	35.335 153	55.36	12.202	39.89 182	46.85	75.87 280	0.010	04.0I
	28	35.488 181	55.19 33	12.477 232	38.07 186	46.85 33 47.18 41	72.98 283	1.026	62.52 211
Sept.	7	35.669 208	54.86	12.709 267	36.21 189	47.59	70.15 270	1.273 287	60.41
	17	35.877 225	54.34 71	12.076	34.32 187	47.59 48.08 48.62 54	07.45	1.560 235	58.30 206
	27	36.112 260	53.63	1 3.4/1 222	32.45 184	40.02 61	04.92	1.560 1.885 2.244	56.24 199
Okt.	7	36.372 285	52.72	13.010 262	30.61	49.23 67	02.02		131 2 180
	17	36.657 <sub>306</sub>	51.62 128	13.972 388	28.86 164	49.90 70	60.61 168	2.635 391	52.39 169
	27	36.963 320	50.34 143	14.360 407	27.22 147	50.60 74	58.93 129		50.70 148
Nov.	6	1 37.203	40.91	14.707	25.75 126	1 51.34	57.64 86	3.495 455	49.22
	16	37.014 225	41.39 100	15.100 424	24.49 101	52.09	56.78 39	3.950 458	48.01 91
	26	1 37.949 000	45.80	15.610	23.48 71	52.04	56.39 10	4.408	47.10
Dez.	6	38.278 329	44.21 153	16.027 398	22.77 38	53.58 70	56.49 60	4.860 432	46.53 20
	16	38.592	42.68	16.425	22.39 4	54.28 64	57.09 108	5.292 400	46.33. 19
	26	38.881 257	41.26	16.793 327	22.35 =	54.92 56	58.17		46.52 57
	36	39.138 237	39.99	17.120	22.66	54.92 56 55.48	59.71	5.092 6.047 355	47.09
Mittl	. Ort	35.401	50.84	12.388	38.35	47.69	77.26	0.964	63.50
sec δ,		1.023	+0.214	1.346	+0.900	2.651	+2.455	1.476	+1.086.
	a'	+3.3	-13.9	+3.9	<b>—14.0</b>	+5.4	-14.0	+4.1	-14.2
a,		-0.0I	- o.72	I-0.04	- o.72	-0.11	- o.71	-0.05	- o.71

		343) α V	olantis	345) λ V	elorum	347) & I	Hydrae	348) β C	arinae
Ta	ıg	AR.	Dekl.	AR.	Dekl	AR.	Dekl.	AR.	Dekl
19	47	9 <sup>n</sup> 1 <sup>m</sup>	-66° 10'	9 <sup>h</sup> 6 <sup>m</sup>	-43° 12'	9 <sup>h</sup> 11 <sup>m</sup>	+2° 32′	9 <sup>h</sup> 12 <sup>m</sup>	-69° 29′
Jan.	1	39.09 28	46.12 364	3.333 228	49.91 341	36.552 232	24.57 170	40.16	37.05 358
	II	39.37	49.76	3.561 <sub>169</sub>	55.54 248	36.784 180	22.87	40.49 33	40.63 377
	21	39.56 8	53.56 385	3.730 107	56.80 346	36.973 141	21.33	40.72	44.40 386
	31	39.64	57.41 379	3.837 44	00.20	37.114 91	20,00	40.82	48.26 384
Febr.	9	639.61	61.20 364	$^{7}$ 3.881 $\frac{11}{18}$	63.59 333	8 37.205 41	18.89 87	<sup>8</sup> 40.81 <sub>13</sub>	52.10 373
	19	39.48 22	64.84 341	3.863 74	66.73 287	37.246 <sub>6</sub>	18.02 65	40.68 23	55.83 352
März	I	39.26	00.25 210	3.789 124	69.60	37.240 47	17.37	40.45	59.35 324
	II	38.96	11.35 272	3.665 165	12.14 218	37.193 82	16.95 22	40.12	02.59 289
	21	38.59	74.08	3.500 roo	74.32	37.111	16.73	39.71 48	65.48 248
	31	38.17 47	76.38 183	3.301 221	76.09 134	37.002 127	16.68 =	39.23 54	67.96 203
April	10	37·7° <sub>5°</sub>	78.21 134	3.080 234	77.43 88	36.875 136	16.80 25	38.69 57	69.99 154
	20	37.20	79.55 81	2.846	78.31 43	36.739 127	17.05 36	38.12 58	71.53 103
	30	36.69	80.36 28	2.008 224	78.74 -	30.002	17.41	37.54 60	72.56 49
Mai	10	30.19	80.64 =	2.374 222	78.71 48	36.471	17.88	36.94 58	73.05 4
	20	35.69 46	80.39 78	2.151 205	78.23 93	36.351 102	18.44 63	36.36 56	73.01 58
	30	35.23 43	79.61 128	1.946 182	77.30	36.249 82	19.07 69	35.80 52	72.43 116
Juni	9	34.80	78.33 175	1.764 153	75.97	36.167 59	19.76	35.28	71.33 158
	19	34.42 22	76.58 216	1.011	74.20	36.108 34	20.49 76	34.80	69.75 203
	29	34.09 26	74.42 253	1.490 86	72.21	36.074 7	21.25 76	34-39 34	67.72 241
Juli	9	33.83 19	71.89 281	1.404 47	69.89 252	30.007 =	22.01 74	34.05 26	65.31 272
	19	33.64 10	69.08 302	1.357 7	67.37 266	36.087 47	22.75 68	33.79 16	62.59 297
	29	33.54 2	66.06	1.350 75	64.71	36.134	23.43 60	33.63 7	59.02
Aug.	8	33.51 7	02.93 314	I.385	02.00	36.208 103	24.03 49	33.56 - 3	56.51 315
	18	33.58 15	59.79 303	1.464	59.34 252	36.311	24.52 32	33.59 13	53.36 310
	28	33.73 24	56.76 283	1.588 169	56.81 239	36.442 159	24.84 14	33.72 24	50.26 291
Sept.	7	33.97 33	53.93 251	1.757 213	54.52 196	36.601 187	24.98	33.96 34	47.35 263
	17	34.30	51.42 210	1.970	52.50	36.788 216	24.89 35	34.30 43	44.72 225
	27	34.71	49.32 159	2.225 295	51.01	37.004 243	24.54 61	34.73 52	42.47 176
Okt.	7	33.10	47.73 100	2.520 228	49.94 52	37.247 269	23.93 88	35.25 59	40.71
	17	35.71 58	46.73 37	2.848 356	49.42 7	37.516 291	23.05 115	35.84 64	39.52 57
	27	36.29 60	46.36 29	3.204 376	49.49 67	37.807 310	21.90 140	36.48 68	38.95 9
Nov.	6	36.89 60	46.65	3.580 386	50.16 126	38.117 323	20.50	37.16 68	39.04 76
	16	37.49 60	47.61 160	3.580 386 3.966 384	51.42 182	38.440 228	18.89 177	37.84 68	39.80 142
a sigl	26	38.09 56	49.21 220	7 77 271	222	38.768 324	17.12 188	38.52 64	41.22 203
Dez.	6	38.65 50	51.41 273	4.721 346	55.56 276	39.092 313	15.24 191	39.16 58	43.25 258
	16	39.15 43	54.14 317	5.067 311	58.32 309	39.405 290	13.33 190	39.74 50	45.83 305
	26	39.58 35	57.31 351 60.82	5.370 263	01.41 333	39.095 258	11.43 181	40.24 41	48.88 342 52.30
	36	39.93	60.82	5.641	64.74	39.953	9.62	40.65	52.30
Mitt	l. Ort	36.96	62.95	2.661	63.77	36.455	20.12	37.71	55.05
	i, tg δ	2.477	-2.266	1.372	-0.940	1.001	+0.044	2.855	-2.674
	, a'	+0.9	<b>—14.</b> 3	+2.2	-14.5	+3.1	-14.9	+0.7	-14.9
b,	b'	+0.11	·— o.70	+0.05	<b>–</b> 0.69	0.00	— o.67	+0.13	- o.67

Ta	).P	350) 83	Cancri	352) α :	Lyncis	353) × T	/elorum	354) a I	Hydrae
	°Б	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
194	47	9 <sub>p</sub> 16 <sub>m</sub>	+17° 55′	9 <sup>h</sup> 17 <sup>m</sup>	+34° 36′	9 <sup>h</sup> 20 <sup>m</sup>	-54° 46′	9 <sup>h</sup> 24 <sup>m</sup>	-8° 25'
Jan.	I	1.604	53.09 91	50.111 290	62.08	29.266 271	44.40 353	59.030 236	33.56 224
9 4 4 1	II	1.057 200	52.18 65	50.401 239	$62.07 \frac{1}{33}$	29.537	41.93 268	59.266	35.80 214
	21	2.000	51.53 40	50.640 183	62.40 62	, 29.738 126	51.01	59.460	37.94 199
171 - L	31	2.225 105	51.13 15	50.823 123	63.02 87	29.864 50	55.33 368	59.607 97	39.93 178
Febr.	9*)	2.330 53	50.98 -	50.946 62	63.89 108	29.914 25	353	59.704 47	41.71 155
	19	2.383 2.386 3	51.05 26	51.008 4	64.97	29.889 94	62.54 331	59.751	43.26
März	I	41	51.31 42	51.012 48	66.10	29.795		59.751 42	44.56
	II	2.345 80	51.73 <sub>53</sub>	50.964 93	07.40	29.038	265	59.709 77	45.60 79
	21	2.265 109	52.26	50.871 128	00.77	29.429 252	71.51 225	59.632	46.39 53
	31	2.156	52.85 63	50.743 153	70.00 111	29.177 285	73.76 180	59.527 124	46.92 29
April	10	2.027	53.48 62	50.590 168	71.11 95	28.892 28.586 216	75.56	59.403	47.21 6
	20	1.000	54.10	50.422 171	72.00 76	28.586 316	76.90 84	59.268	47.27 =
	30	I.744	54.69	50.251 166	72.82 53	28.270 319	77.74 33	59.129 126	47.12 37
Mai	10	1.007	55.22 47	50.085 152	73.35 30	27.951 310	78.07 =	58.993 126	46.75 55
	20	1.482 107	55.69 38	49-933 133	73.65 6	27.641 294	77.90 66	58.867 112	46.20 72
	30	1.375 85	56.07 31	49.800 107	73.71 16	27.347 271	77.24 114	58.755 95	45.48 88
Juni	9	1.290 61	56.38	49.693	73.55 39	27.076	76.10 108	58.660	44.60
	19	1.229 35	56.60	49.614 48	73.10 60	26.835 204	74.52 100	58.587	43.59 112
	29	1.194 6	56.72	49.566	72.56	20.031	72.53 222	58.536 26	42.47 119
Juli	9	1.188 =	56.75 -8	49.552 -	71.77 97	26.468 116	70.20 261	58.510	41.28 123
	19	1.210 51	56.67 18	49.571 54	70.80	26.352 65	67.59 281	58.510 27	40.05 124
	29	1.261 79	56.49 31	49.625 87	69.67	26.287 to	64.78	58.537	38.81 118
Aug.	8	1.340	56.18	49.712	08.40	26.277 47	61.85 204	58.591 82	37.63 108
	18	1.449 138	55.75 <sub>58</sub>	49.834 155	1 00.99 172	26.324 ,06	58.91 28	58.674 112	36.55 92
	28	1.507 167	55.17 73	49.989 190	05.47 162	26.430 167	56.06 267	58.786 141	35.63 73
Sept.	7	1.754 196	54.44 89	50.179 223	63.85 171	26.597 226	53.39 238	58.927 172	34.90 47
	17	T.050 .	53.55	50.402	02.14	26.823	51.01	59.099 202	34.43 17
	27	2.176	52.50	50.657 287	00.30	27.106 336	49.03 150	59.302 231	$34.26 \frac{1}{16}$
Okt.	7	2.429 -0-	51.29 126	50.944	1 50.50 .00	41.444 -0-	47.53	59.533 260	34.42 52
	17	2.710 305	49.93 148	51.202 345	56.78 176	27.824 420	46.58 34	59.793 285	34.94 88
	27	3.015 324	48.45	51.607 367	55.02 168	28.244 446	46.24 30	60.078	35.82 123
Nov.	6	3.339 339 3.678 346	40.00	51.9/4 202	53.34 100	20.000	46.54	00.303 220	37.05
	16	3.678 346	45.20 761	52.357	51.79 136	29.149 450	47.47 156	00.703	38.60 183
	26	4.024	43.05 116	32.140 280	50.43	29.000	49.03	01.030	40.43
Dez.	6	4.368 334	42.09 144	53.137 377	49.29 86	30.052 415	51.17 264	61.355 314	42.48 221
	16	4.700 312	40.65 128	53.514 354	48.43 56	30.467 370	53.81 307	61.669 293	44.69 229
	26	5.012 279	39-37 107	53.868 319	47,87 22	30.837 314	53.81 307 56.88 340	01.962 262	46.98
4.4	36	5.291	38.30	53.868 319 54.187	47.64	31.151	50.88 60.28	62.224	49.28
Mittl.	Ort	1.510	52.00	49.903	64.27	28.259	61.05	58.950	40.72
sec δ,		1.051	+0.324	1.215	+0.690	1.734	-1.417	1.011	-o.148
a,		+3.4	-15.1	+3.7	-15.2	+1.9	-15.4	+2.9	-15.6
<i>b</i> ,	<i>b'</i>	-0.02	— o.66	<b>—о.о</b> з	- o.65	+0.07	— o.64	+0.01	- o.63

<sup>\*)</sup> Bei Stern 352), 353) und 354) lies Febr. 10.

100										
Ta	ıg	356) ε A		355) 23 U		358) 9 Ur	sae maj.	357) 24 U	rsae maj.	
1		AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	
19	47	9 <sup>h</sup> 27 <sup>m</sup>	-35°42′	9 <sup>h</sup> 27 <sup>m</sup>	+63°17′	9 <sup>h</sup> 29 <sup>m</sup>	+51°54′	9 <sup>h</sup> 29 <sup>m</sup>	+70° 3′	
Jan.	I	3.679 244	54.18 319	23.38 48	35.85	19.947 374	67.02 78	51.51 60	46.79 159	
	11	3.923 rod	15/.5/	23.86 40	37.19	20,321	07.80	52.11	48.38 202	
	21	4.117 128	00.02	24.26	38.94		100.97	52.11 50 52.61 38	50.40	
	31	4.255 80	03.00 212	24.26 40 24.56 20	41.03	1 20.872	70.40	52.99 25	52.70 26T	
Febr.	10	4.335 24	66.98 294	24.76 10	43.38 251	21.030 85	72.28 199	53.24 11	55.37 275	
	19	4.359 29	69.92 269	24.86 <sub>I</sub>	45.89 255	21.121 8	74.27 207	53.35 2	58.12 278	
März	I	1.230	72.01	24.85	40.44	21,120 7	70.34	53.33	60.90 269	
	II	4.253	75.00	24.75	50.92 232	21.066	78.42	53.18	63.59 249	
	21	4.130	77.05 160	24.50 26	53.24 207	20.042	80.41	52.92	00.08	
	31	3.987 173	78.74 129	24.30 31	55.31 173	20.768 212	82.22	52.57 42	68.27 182	
April	10	3.814 188	80.03 89	23.99 34	57.04 132	20.556	83.78 125	III have been a supply	70.00	
	20	3.626	1 XA A2	23.65 34		20.310	1 05.02	52.15 51.68 47	70.09 137 71.46 88	
	30	3.432 193	81.40 6	23.20	50.25	20.072	85.04	51.08 50 51.18 51	70 04	
Mai	10	3.239 186	81.46	22.03	50.68	19.827 232	86.47 53	50.67 48	$72.72 \frac{38}{13}$	
*	20	3.053 173	81.12 34	22.58 35	59.63 50	19.595 211	86.61 = 24	50.19 45	72.59 64	
	30		80.28	22.26 27	141	19.384 180	86.37 62	The second of the		
Juni	9	2.880 <sub>155</sub> 2.725 <sub>132</sub>	79.27 145	21.99 23	59.13 58.18 95	19.204 180	85.75	49.74 <sub>40</sub> 49.34 <sub>33</sub>	71.95 111 70.84 155	
	19	2.593 106	77.82	21.76 16	r6 82	19.060	18178	49.01 26	69.29 195	
	29	2.487 78	76.06 202	21.60	55.09 205	18.957	83.49 158	48.75	67.34 230	
Juli	9	2.409 46	74.04 221	21.49 4	53.04 233	18.897 15	81.91 183	48.58 10	65.04 257	
				1.1		18.882	200		60.45	
	19 29	2.363	71.83 234	21.45 <sub>2</sub> 21.47 <sub>0</sub>	50.71 48.16 271	18.914 70	80.08 <sub>205</sub> 78.03 <sub>222</sub>	48.48 48.48	62.47 281	
Aug.	8	2.350 <del>24</del> 2.374 61	69.49 239 67.10 236	21.56 9	45.45 283	18.993 126	75.81 235	48.57 18	59.66 298 56.68 200	
	18	2.125	64.74 225	21.72 23	42.62 290	19.119 173	73.46 235	48.75 27	53.59 313	
	28	2.534 140	62.49 205	21.95 29	39.72 290	19.292 219	71.01 245	49.02 35	50.46 313	
Cant	3									
Sept.	7 17	2.674 180	60.44	22.24 35	36.82 285	19.511 265	68.51 251	49.37 45	47.34 304	
	27	2.854 219	58.69 138 57.31 04	22.39 AT	33.97 274	19.776 310 20.086 372	66.00 248 63.52 240	49.82 <sup>45</sup> 50.34 <sub>60</sub>	44.30 290	
Okt.	7	3.073 257 3.330 292	56 27	23.00 48	31.23 <sub>259</sub> <sub>28.64 <sub>237</sub></sub>	20.438 393	61.12 226	50.94 66	-01-	
	17	3.622 321	55 OV -	24.00	26.27 209	20.831 429	58.86 208	51.60	36.25 244 36.25 213	
	Tab.			57	209					
Nov.	27 6	3.943 344	56.04 65	24.57 61	24.18 175	21.260 21.718 481	56.78 184	52.33 77	34.12	
1101.	16	4.287 359 4.646 364 5.010 359	56.69 120	25.18 63	22.43 137 21.06	22.710 481	54.94 154	53.10 %	32.38 174 31.08 83	
	26	5.010 364	57.89 172	25.81 65 26.46 65		22.199 493 22.692 492	53.40 <sub>120</sub> 52.20 82	53.91 <sub>82</sub> 54.73 <sub>82</sub>	30.25 31	
Dez.	6	5.369 359	59.61 219 61.80 258	27.II <sub>62</sub>	20.13 46	23.184 492	FT 28	55.55 79		
		3.309 341			19.67 3		22		-	
	16	5.710 313	64.38 290	27.73 59	19.70 54	23.663 451	50.99 5	56.34 74	30.16 76	
	26	0.023 276	07.28	20.32	20.24 103	24.114	51.04 50	57.00 66	30.92 127	
Styles	36	6.299	70.41	28.85	21.27	24.523	51.54	57.74	32.19	
Mittl.	. Ort	3.320	67.68	22.35	42.33	19.442	72.34	49.87	53.89	
sec δ,	, tg δ	1.232	_0.719	2.225	+1.988		+1.276	2.933	+2.757	
	a'	+2.5	-15.7	+4.7	-15.8	+4.1	-15.9	+5.3	-15.9	
b,	<i>b'</i>	+0.04	— o.62	-0.10	— o.62	-0.07	— o.61	—o.15	- o.61	
3 3 3	G 47									

Тя	1.0	360) 10 Le	onis min.	366) & 1	Antliae	367) ε I	Leonis	368) u Ursae maj.	
4	D	AR.	DekL	AR.	Dekl.	AR.	DekL	AR.	Dekl.
19.	47	9 <sup>h</sup> 30 <sup>m</sup>	+36° 37′	9 <sup>h</sup> 41 <sup>m</sup>	-27° 31′	9 <sup>h</sup> 42 <sup>m</sup>	+24° 0′	9 <sup>h</sup> 47 <sup>m</sup>	+59° 16′
Jan.	1	59.128 308	59.24	50.361 253	21.58 294	50.802 285	68.59	14.985 459	74.09 96
	11	59.430 258	59.25 25	50.614	24.52 208	51.087	67.86 73	15.444 388	75.05
	21	59.694	59.60 68	50.821 156	27.50 202	51.329 193	67.43	15.832	76.45 178
	31	59.896	60.28	50.977 104	30.42 280	51.522	67.30 16	16.139	78.23
Febr.	10	60.037 79	61.23 118	51.081 51	33.22 262	51.661 85	67.46	16.358 127	80.32
	19	60.116 20	62.41	51.132	35.84 237	51.746 32	67.86 <sub>61</sub>	16.485 35	82.62
März	I	60.136 -	03.74	51.133 -45	38.21	51.778 =	68.47	16.520	05.03 242
	II	60.101	05.10	51.088	40.30	51.761 58	69.24 87	16.468	87.45
	21	60.019	00.58 726	51.004 116	42.08	51.703 93	70.11 92	10.339	89.77 212
	31	59.898 148	67.94 125	50.888	43.53 110	51.610 118	71.03 92	16.145 245	91.90 185
April	10	59.750 166	69.19 107	50.749 154	44.63 75	51.492	71.95 86	15.900 281	93.75 150
	20	59.584 172	70.26 86	50.595 162	45.38 39	51.358	72.81 78	15.619 301	95.25 111
	30	59.411	71.12 62	50.433 163	45.77	51.216	73.59 67	15.310 307	96.36 68
Mai	10	59.241 159	71.74 36	50.270 158	45.80 =	51.076	74.26 53	15.011 208	97.04 24
	20	59.082	72.10	50.112	45.49 65	50.943 120	74.79 38	14.713 279	97.28 =
	30	58.941 119	72.21	49.965 131	44.84 97	50.823 101	75.17 23	14.434 249	97.06 65
Juni	9	58.822	72.06	49.834	43.87	50.722	75.40 7	14.185	96.41 106
	19	58.731 61	71.66 64	49.720 91	42.62	50.643	75.47 8	13.975 -6-	95.35
	29	58.670 29	71.02 86	49.629 67	41.11	50.588 29	75.39 24	13.810	93.91
Juli	9	$58.641 - \frac{2}{5}$	70.16 106	49.562 40	39.38 188	50.559 2	75.15 39	13.694 63	92.12 208
	19	58.646 38	69.10	49.522 12	37.50 199	50.557 26	74.76	13.631 8	90.04 235
	29	58.684	67.86	49.510 =	35.51 aca	50.583 55	74.21 70	13.623 -	87.69
Aug.	8	58.758 108	00.40	49-530 52	33.48	50.638 85	73.51 8c	13.672	85.14
	18	58.866	04.90 168	49.582 86	31.49 .80	50.723 115	72.66	13.777 164	82.43 282
	28	59.009	63.22 179	49.668	29.60 169	50.838 146	71.65	13.941 221	79.61 287
Sept.	7	59.186 213	61.43 187	49.791 159	27.91 142	50.984 177	70.48	14.162 278	76.74 288
	17	59.399 248	59.56	49.950	26.49 109	51.161	09.17	14.440	73.86
-	27	59.647 282	57.62 106	50.140	25.40 68	51.371	107.72	1 -4.//3 .00	71.03
Okt.	7	50.030	55.66 106	50.377 266	24.72 23	51.613	100.14	15.103	68.31 256
	17	60.244 344	53.70 191	50.643 296	24.49 -	51.886 301	04.40 176	15.002 486	65.75 233
	27	60.588	51.79 181	50.939 320	24.74 75	52.187 327	62.70 180	16.088	63.42 204
Nov.	6	60.588 60.958 370	49.98 167	51.259 228	25.49	52.514 346	60.90 179	10.013	61.38
	16	01.347 200	48.31	51.597 247	20.73	52.860 358	59.11 172	11.109 171	59.68 130
	26	61.746	46.85 122	51.944 346	28.44	53.218 362	57·39 161	17.743 579	58.38 85
Dez.	6	62.146 400	45.63 92	52.290 335	30.55 246	53.580 355	55.78 142	18.322 569	57.53 36
	16	62.537	44.71 59	52.625 312	33.01 272	53.935 338	54.36 120	18.891 541	57.17 13
	26	02.907 336	44.12	52.937 280	35.73 280	54.273 210	53.16 93	19.432 406	57.30 63
10 4	36	63.243	43.88	53.217	38.62	54.583	52.23	19.928	57.93
Mittl	L Ort	58.941	62.20	50.214	33.82	50.776	69.26	14.282	81.13
	, tg δ	1.246	+0.744	1.128	-0.521	1.095	+0.446	1.958	+1.683
	a'	+3.7	-16.o	+2.7	-16.5	+3.4	-16.6	+4.3	-16.8
Ъ,	b'	-0.04	— o.61	+0.03	- o.57	-0.02	- o.56	-0.09	- o.55

100	- 1					0.2002111		The same	The second
Ta		370) 5 Se	extantis	372) Grb 1	586 UMaj	375) φ V	elorum	378) π I	Leonis
10	*6	AR.	Dekl.	AR.	Dekl.	AR.	Dekl,	AR.	Dekl.
194	47	9 <sup>h</sup> 48 <sup>m</sup>	-3° 59′	9 <sup>h</sup> 53 <sup>m</sup>	+73° 7′	9 <sup>h</sup> 54 <sup>m</sup>	-54° 18′	9 <sup>h</sup> 57 <sup>m</sup>	+8° 17′
Jan.	1	33.709 257	32.56 209	43.27 75	49.87	60.550 322	34.53 336	24.734 272	60.60
	11	33.966	34.65	44.02	51.31	60.872	37.89 357 41.46 369	25.000	59.03 136
1	21	34.184	30.02	44.66	53.22	61.129 187	41.46 360	25.239 189	57.67
	31	34.356	30.41 758	45.15 35	55.53 261	61.316		25.428	56.55 86
Febr.	10	34.479 74	39.99 135	45.50 20	58.14 282	61.430 41	48.85 370	25.568 90	55.69 61
	19*)	34.553 27	41.34 110	45.70 4	60.96 289	61.471	52.47 246	25.658 42	55.08 36
März	I	34.580 16	42.44 85	45.74	03.85 -0.	61.441	55.93 222	25.700 -	54.72
	II	34.564 54	43.29 60	45.63	66.69	61.347	59.15 291	25.697 42	54.58
	21	34.510 82	43.89 38	45.38 26	09.38	61.197	62.06	25.655 73	54.63
	31	34.427 105	44.27	45.02 46	71.80 206	00.998 236	04.01 216	25.582 98	54.85
April	10	34.322 120	44.44 2	44.56	73.86 164	60.762 265	66.77	25.484 114	55.19 44
	20	34.202	44.42 20	44.02 58	75.50	1 00.497	00.40	25.370 122	55.63
	30	34.075 127	44.22 36	44.02 58	76.65 63	60.213 204	69.72 76	25.248 124	56.13
Mai	10	33.948	43.86	42.05 60	77.28 10	59.919	70.48 26	25.124 119	56.68 57
	20	33.826 112	43.36 63	42.25 56	77.38 =	59.624 288	70.74 =	25.005 109	57.25 57
	30	33.714 96	42.73 74	41.69 52	76.95 94	59-336 274	70.51 72	24.896 96	57.82 56
Juni	9	33.618 79	41.99 83	1 41.1/	76.0I 142	59.002	69.79	24.800 78	58.38
	19	33·539 60	41.16	40.71 28	74.59 186	58.809 226	68.61	24.722 50	58.92 51
	29	33.479 38	40.25 94	40.33	72.73 224	58.583 192	67.00	24.663	59.43
Juli	9	33.441 14	39·3 <sup>1</sup> 96	40.04 19	70.49 259	58.391 153	05.01 232	24.626 15	59.88 38
	19	33.427 10	38.35 94	39.85 10	67.90 286	58.238 108	62.69 258	24.611 10	60.26
	29	33-437 36	37.41 88	39.75	05.04	58.130	00.11	24.621 34	60.55
Aug.	8	33.473 63	36.53 78	39.75 11	01.9/ 222	50.071	57.30 284	24.655 62	60.73 5
	18	33.536 91	35.75 63	39.86	50.74 221	58.066	54.52 283	24.717 89	60.78
	28	33.627 121	35.12	40.08 33	55.43 333	58.119 114	51.69 271	24.806 118	60.67 29
Sept.	7	33.748 152	34.68 21	40.41	52.10 48.81 318	58.233 174	48.98 249	24.924 149	60.38
	17	33.900 -00	34.47 6	40.83	48.81 318	58.407	40.49 216	25.073 181	59.88
	27	34.083	34.53 36	41.40 /	45.03	50.042 204	44.33 174	25.254 212	59.17 95
Okt.	7	34.298	34.89 68	41.98	42.03	1 50.930	42.59 124	25.466	58.22 118
	17	34.543 273	35.57 100	42.09 79	39.88 2/5	59.283 347 394	41.35 67	25.709 273	57.04 140
	27	34.816 298	36.57	43.48 86	37-44 206	59.677 430	40.68 6	25.982 298	55.64 160
Nov.	6	35.114 216	37.88	44.34	35.38	60.107 454 60.561 466	40.62 = 57	26,280	54.04 175
	16	35.430 328 35.758 330	39.40 182	45.24 94	33.76	60.561 466	41.19	40.144	52.29 187
-	26	35.758 330	41.29 202	45.24 94 46.18 94	32.63 60	61.027 461	42.39 179	20.9320	50.42
Dez.	6	35.758 36.088 330 324	43.31 213	47.12 93	32.03 3	61.027 461 61.488 442	44.18 234	334	48.50 191
	16	36.412	45.44 218	48.05 88	32.00	61.930 408	46.52 281	27.604 319	46.59 183
16.5	26	30.719 281	47.62 216	48.93 80	32.53 108	62.338 360	49.33 319	27.923 205	44.76
	36	37.000	49.78	49.73	33.61	62.338 360	52.52	28.218	43.06
	L Ort	33.750	38.91	41.39	58.40	59.909	53.08	24.821	57.53
sec 8	, tg δ	1.002	-0.070	3.446	+3.298	1.714	-1.392	1.011	+0.146
<i>a</i> ,	a'	+3.0	-r6.8	+5.4	-17.I	+2.1	-17.I	+3.2	-17.2
b,	b'	0.00	- o.54		- o.52	+0.08	- o.52	-0.01	- o.51
								G* 4	7

<sup>\*)</sup> Bei Stern 378) lies Febr. 20.

379) <b>η</b> Leonis		380) α I	Leonis	381) λ ]	Hvdrae	382) 191 G. Velorum			
Te	rg	AR.	Dekl.	AR.	Dekl	AR.	Dekl.	AR.	Dekl.
194	47	10 <sup>h</sup> 4 <sup>m</sup>	+17° 1′	10 <sup>h</sup> 5 <sup>m</sup>	+12° 13′	10 <sup>h</sup> 7 <sup>m</sup>	-12° 5′	10 <sup>h</sup> 12 <sup>m</sup>	-41° 51′
Jan.	1	26.616 288	19.49 119	32.953 <sub>282</sub>	39.23 143	60.070 269	20.28 242	30.569 302	14.78
	II	26.904 250	TX.20	33.235 244	37.80 118	60.339 230	22.70 237	30.871 253	
	21	1 27.154	T7 27	33.479 200	26.62	60.569 186	25.07 237	31.124 198	OT 02 331
	31	27.358	16.73	33.679	25 70 92	60.755 139	27.3I	2T 222	24 6T 330
Febr.	10	27.512 103	T6 28 33	33.830 100	35.05 38	60.894 90	29.38 186	31.462 80	27.99 327
1	Trans.			547 LIS 6	30	90		00	3-/
M:	20	27.615 52	16.31	33.930 51	34.67 13	60.984 42	31.24 <sub>162</sub> 32.86 <sub>126</sub>	31.542 23	31.26 309
März	I	$\begin{bmatrix} 27.667 & 6 \\ 27.673 & \frac{6}{26} \end{bmatrix}$	16.48	<sup>22</sup> 33.981 6	34.54 9	61.026 - 3		<sup>24</sup> 31.565 31	34.35 286
	1I 2I		16.85 53	$33.987 \frac{-}{35}$	34.63 <sub>27</sub> 34.90 <sub>43</sub>	61.023 40 60.983	34.22 109	31.534 77	37.21 <sub>258</sub>
	31	27.637 7° 27.567 06	17.38 65 18.03 71	33.95 <sup>2</sup> 68 33.884	42	60.911	35.31 84 36.15 57	31.457 118	39.79 224
	3-	90	/-	33.004 93	35.32 52	9/	3/	31.339 150	42.03 187
Apri l	10	27.471 114	18.74 74	33.791 111	35.84 58	60.814 114	36.72 32	31.189 173	43.90 147
	20	27.357	19.48 73	33.680	36.42 61	60.700	37.04 8	31.010	45.37
	30	27.232	20.21 68	33.559 124	37.03 62	60.577	37.12 =	30.826 199	46.44 64
Mai	10	27.105	20.89 62	33.435 120	37.65 60	60.449 125	36.97 36	30.627	47.08 20
	20	26.982	21.51 54	33·315 mi	38.25 57	60.324 119	36.61 56	30.425 197	·47.28 =
	30	26.868 101	22.05	33.204	38.82	60.205 108	36.05	30.228 188	47.06 6
Juni	9		22.48 43	22 705	20.22	60 007	35.3T /4		16 AT
	19	26 682	22.8T 33	22.022	20 78 43	60.002	21 AT	30.040 29.865 155	15 27
	29	26.610	23.03	22.050	40.16	FO 007	33.37 115	29.710	12.06
Juli	9	26.577 19	23.12	32.916 43	40.45	59.927 <sub>58</sub> 59.869 <sub>36</sub>	32.22	29.578 105	42.22
			4	-	19	30	122		
	19	26.558	23.08	32.895 4	40.64 8	59.833 14	31.00 125	29.473 73	40.20 223
Ann	29	26.563 32	22.91 32	32.899 28	40.72 5	59.819 =	29.75 124	29.400 39	37.97 238
Aug.	8 18	26.595 58	22.59 48	32.927	40.67 20	59.831 39	28.51 117	29.361	35.59 244
	28	26.653 87	22.11 64	32.982 83	40.47 36	59.870 68	27.34 105	29.361 42	33.15 242
	20	26.740 117	21.47 82	33.065 112	40.11	59.938 98	26.29 87	29.403 87	30.73 231
Sept.	7	26.857 148	20.65 101	33.177 143	39.57 73	60.036	25.42 64	29.490	28.42 209
	17	27.005	19.64	33.320 175	38.84	60.168	24.78 36	29.024 182	20.33
45.7	27	27.186	18.45	33.495 208	37.89	00.333	24.42	29.806	24.54 141
Okt.	- 7	27.400	17.00 155	33.703 240	36.74	60.533	24.39 =	30.035	23.13
	17	27.646 277	15.53 169	33.943 270	35.38 155	60.766 265	24.71 70	30.309 315	22.18 42
	27	27.023	13.84 180	34.213 298	33.83 171	61.031 292	25.41 108	30.624 349	21.76
Nov.	6	20.221	12.04 188	34.511 320	32.12	61.323 314	26.49	30.073	27 80
	16	28.554 3 <sup>27</sup> 28.806	10.16	34.831 335	30.30	61.637 329	27.92 176	30.973 375 31.348 391	22.59 70
	26		8.27 185	35.166 335	28.40	61.966		31.739 394	23.85 180
Dez.	6	29.246 35° 347	6.42	35.100 <sub>343</sub> <sub>35.509 <sub>340</sub></sub>	26.49 186	62.300 334	31.71 224	32.133 386	25.65 228
	-6					33-	1 1 1 W		
	16	29.593 333	4.67	35.849 <sub>327</sub>	24.63	62.631 316	33.95 238	32.519 364	27.93 268
100	26	29.926 333	3.00 137	30.170 202	22.88	02.947 201	36.33 245	32.883 331	30.61 301
1	36	30.237	1.71	36.479	21.31	63.238	38.78	33.214	33.62
Mittl.	Ort.	26.711	18.80	33.069	37.27	60.180	29.08	30.427	31.53
sec δ,	tg 8	1.046	+0.306	1.023	+0.217	1.023	-0.214	1.343	-o.896
a,		+3.3	-17.5	+3.2	-17.6	+2.9	-17.7	+2.5	-17.9
<i>b</i> ,	b'	<b>-0.02</b>	— o.48	-o.or	— o.48	+0.01	- 0.47	+0.05	- o.45

-		384) ζ	Leonis	383) λ Ur	sae maj.	386) µ Uı	rsae maj.	387) 30 H.I	Jrsae mai.
Ta	ag	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
19	47	10 <sup>h</sup> 13 <sup>m</sup>	+23° 40′	10 <sup>h</sup> 13 <sup>m</sup>	+43° 10′	10 <sup>h</sup> 19 <sup>m</sup>	+41° 45′	10 <sup>h</sup> 20 <sup>m</sup>	+65° 49′
Jan.	1	44.636 306	54.57	54-599 368	41.77	10.802 365	55.04	20.89 21.48 59	57.85 85
	II	44.942 268	53.63 62	54.967	$41.73 \frac{4}{39}$	11.107	$54.89 \frac{15}{28}$	21.48 59	58.70 136
	21	45.210	53.01 29	55.289 367	42.12 80	11.489 268	55.17 68	22.00	60.06
	31	45.432	52.72	55.556	42.92	11.757	55.85 105	22.43 22	61.88
Febr.	10	45.603 117	52.74 31	55.761 139	44.07 145	11.964	56.90 136	22.76 33	64.07 248
	20	45.720 65	53.05 56	<sub>34</sub> 55.900 74	45.52 166	12.108 80	58.26	22.98 11	66.55 266
März	I	45.785 16	53.61 76	55.974 11	47.18	12.188 19	59.85	20 23.09	69.21 271
	11	45.801 = 29	54.37 00	55.985 -	48.98	$12.207 \frac{2}{36}$	61.59 179	23.08	71.92 265
	21	45.772 66	55.27 08	55.940 02	50.83	12.171	0,3.,000	22.98	74.57 249
	31	45.706 94	56.25 101	55.848 132	52.63 169	12.087 122	65.16	22.79 27	77.06 222
April	10	45.612 115	57.26 99	55.716 160	54.32 150	11.965 150	66.84	22.52 32	79.28 189
	20	45.497 128	58.25 or	55.556	55.82 126	11.815	00.35	22.20	81.17
15.34	30	45.369 122	59.16 80	55.379 185	57.08 97	11.040	09.03	21.03	82.04 101
Mai	10	45.237	59.96 68	55.194 183	58.05 65	11.409	70.64	21.44	83.65 53
	20	45.106	60.64 52	55.011 174	58.70 33	11.292 169	71.35 39	21.05 38	84.18 3
	30	- 44.984 110	61.16 <sub>36</sub>	54.837 159	59.03	11.123	71.74 6	20.67 36	84.21 46
Juni	9	44.874	61.52	54.678	59.02	10.969	71.80 -	20.31	83.75 94
	19	44.781 72	61.71	54.541 111	58.67	10.034 110	71.53 58	19.90 28	82.81
	29	44.708 52	61.72 -	54.430 83	58.00 98	10.724 84	70.95 80	19.70 22	81.43 180
Juli	9	44.656 29	61.55 34	54.347 51	57.02 125	10.640 54	70.06	19.47 16	79.63 217
	19	44.627 3	61.21	54.296 17	55.77 152	10.586 21	68.89	19.31 11	77.46 249
25 55	29	44.624 =	60.68 53	54.279 17	54.25 176	10.565 =	67.45	19.20 4	74.97 276
Aug.	8	44.647 51	59.98 88	54.296 55	52.49 195	10.577	65.78 ,88	19.16	72.21 297
	18	44.698 81	59.10	54.351	50.54	10.624	63.90	19.20	69.24 313
	28	44.779 112	58.05 123	54.443 132	48.40 228	10.708	61.83 222	- 19.30 18	66.11 323
Sept.	7	44.891 144	56.82 140	54-57.5 172	46.12 239	10.830 162	59.61 235	19.48 25	62.88 326
	17	45.035	55.42	54.747 214	43.73 246	10.992	57.20 242	19.73 33	59.02 324
	27	45.214	53.85 171	54.961	41.27 250	11.196	54.83	20.00 40	50.38 314
Okt.	7	45.427 247	52.14 184	55.210 207	38.77	11.441 285	52.30 248	20.40	53.24 298
	17	45.674 281	50.30 193	55.513 336	36.30 241	11.726 325	49.88 243	20.93 53	50.26 275
	27	45.955 310	48.37 199	55.849 371	33.89 228	12.051 361	47.45 231	21.46 59	47.51 245
Nov.	6	1 46 265	1.40.28	50.220	31.61	12.412	45.14	22.05 64	45.06 208
	16	40.000	44.38	50.021	29.51 184	12.802 413	42.99	22.69 67	42.98 165
	26	1 7 7 7 7 262	42.44 182	31.042 422	21.01 754	13.215 425	41.00 161	23.36 69	41.33 116
Dez.	6	47.315 362	40.61 166	57.475 433	26.13	13.040 426	39.47 126	24.05 70	40.17 63
	16	47.677 350	38.95 142	57.908 419	24.96 76	14.066	38.21 87	24.75 67	39.54 8
	26	48.027 338	37.53 116	58.327 303	24.20	14.479 <sub>390</sub> 14.869	37.34	25.42 63	$39.46 \ \overline{48}$
45	36	48.027 328 48.355	36.37	58.720	23.86	14.869	36.89	26.05	39.94
Mittl.		44.739	55.75	54-495	47.39	10.745	60.55	20.02	67.09
sec δ,		1.092	+0.439	1.371	+0.938		+0.893	2.443	+2.229
a,		+3.3	-17.9	+3.6	-17.9		-18.1	+4.3	-18.2
Ъ,	<i>b'</i>	-0.03	- o.45	—o.o6	- o.45	—o.o5	— o.43	-о.13	- o.42

Tag AR. Dekl AR. Dekl AR. Dekl AR. Dekl AR.  1947 10 <sup>h</sup> 23 <sup>m</sup> -73° 45′ 10 <sup>h</sup> 23 <sup>m</sup> -16° 33′ 10 <sup>h</sup> 24 <sup>m</sup> -30° 47′ 10 <sup>h</sup> 24 <sup>m</sup> Jan. I 22.71 61 18.86 308 31.334 281 44.13 256 46.69 254 43.610 252 38.51 301 49.786 30 21 23.82 37 25.38 370 32.060 153 51.70 232 44.067 154 44.55 296 50.354 265 264 24.42 9 32.94 392 32.213 104 54.02 213 44.221 101 47.51 284 50.557 14  März I 20 24.42 9 36.86 388 23.2317 56 56.15 190 58.05 165 190 24.47 17 24.30 29 44.49 355 32.385 28 59.70 138 44.371 2 52.99 241 55.40 212 21 24.01 29 48.04 392 32.357 66 61.08 21 24.331 29 57.52 28 50.787 65	Dekl.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Jan. I 22.71 61 18.86 308 31.334 281 44.13 256 43.317 293 35.61 290 49.436 36 252 46.669 254 43.610 252 44.55 296 49.58 36 36.86 388 40.74 375 24.49 355 48.04 375 24.01 29 24	
Jan. I 22.71 61 18.86 $_{308}$ 31.334 $_{281}$ 44.13 $_{256}$ 43.317 $_{293}$ 35.61 $_{290}$ 49.436 $_{36}$ 32.32 $_{24.19}$ 32 32.94 392 32.213 $_{104}$ 32.26 44.221 $_{101}$ 32.24.42 $_{29}$ 36.86 $_{388}$ 32.213 $_{104}$ 32.317 $_{212}$ 36.86 $_{388}$ 32.317 $_{24.47}$ 375 44.49 355 32.385 $_{28}$ 32.	+36° 58′
TI 23.32 50 21.94 344 25.38 370 24.19 23 29.08 386 32.060 153 32.213 104 54.02 213 44.067 154 47.51 284 50.557 14  März I 24.30 29 24.47 17 24.30 29 24.01 2	41.40
Febr. 10 $\begin{array}{c ccccccccccccccccccccccccccccccccccc$	40.97
Febr. 10 24.42 9 32.94 386 32.94 392 32.213 104 54.02 213 44.221 101 47.51 284 50.557 14  20 24.51 4 36.86 388 40.74 375 12 4.49 355 32.385 28 59.70 138 44.371 2 24.30 29 24.01 29 24.	$\frac{9}{40.96} = \frac{1}{20}$
Tebr. 10 24.42 9 32.94 392 32.213 104 54.02 213 44.221 101 47.51 284 50.557 14 20 24.51 4 40.74 375 12 32.317 56 58.05 165 58.05 165 59.70 138 44.371 2 24.30 29 24.01 20 24.	9 41.35 39
März I 24.51 4 40.74 375 44.49 355 44.49 355 24.01 22 24.	3 42.10 75
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4 43.17 131
21 24.01 20 48.04 43 35.5 32.357 6 61.08 44.331 78 57.52 78 50.787	7 44.48 150
21   24.01 00   40.04 (07   32.33)   61   01.00 111   44.331 70   37.32 100   30.70	r 45.90 TEO
OT 1 00 60 "   FT 07 "   00 006   60 TO 144 040 "   FO 04   FO 047	9 47.57 160
31   23.02 48   51.31 293   32.290 88   02.19 83   44.253 106   59.34 149   50.718 10	
April 10 23.14 56 54.24 251 32.208 107 63.02 55 44.147 129 60.83 115 50.612 13	2 50.72 142
20   22.50 60   50.75 000   32.101 00   03.57 00   44.010 11   01.98 00   50.400 11	52.14
30   21.95 (   58.82 -   31.981 -   03.80   43.874 -   02.77   50.330 -	8 53.38 102
$\frac{10}{10}$   21.20 =   00.40 =   31.855 =   03.89 =   43.721 =   03.20     50.172 =	54.40 76
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3 55.16 48
	== 61
AUDI 1)   TO TO   DT OD   2T AOT   D2 F2   A2 2DO   D2 2D   A0 72D	55.82
	3 55.73 <sub>40</sub>
20   17 33   60 40   47 400   60 70   44 076   60 40   40 406	FF 22
	F4 66
51 Joll4 202 Jillay 53 J9.59 131 42.925 80 J0.15 170 49.420 1	- 93
19 16.78 42 56.72 240 31.174 30 58.08 137 42.835 54 57.03 187 49.367	3 53.73 119
29   10.30 22   54.32 271   31.144   6   50.71 120   42.761 27   55.10 106   49.344	8 52.54 142
Aug. 6   10.04 20   51.01 202   31.136 21   55.32 126   42.754 4   53.20 200   49.352	0 51.12 163
16   15.84 8   48.08 <sub>206</sub>   31.159 <sub>10</sub>   53.90 <sub>126</sub>   42.758 <sub>20</sub>   51.20 <sub>105</sub>   49.392 ,	4 49.49 183
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	47.66
Sept. 7 15.82 19 42.56 296 31.291 116 51.60 88 42.873 116 47.43 162 49.575 14	7 45.67 214
17   10.01   130.00   31.407   150.72   142.000   145.01   140.722	6 43.53 226
	41.27 222
080. / 1 10.01 .0 1 34.43 -0 1 31.747 -0 1 49.05 0 1 43.344 -0 1 43.50 1 43.50	38.94
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	36.57 237
27 18.07 77 30.98 87 32.230 280 50.43 80 43.860 210 42.85 40 50.700 2	
	34.20 230
Nov. 6 $\begin{array}{ c c c c c c c c c c c c c c c c c c c$	31.90 <sub>219</sub> 29.71 <sub>199</sub>
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	27.72 175
Dez. 6 21.39 86 31.41 173 33.503 337 56.24 224 45.223 358 47.39 224 52.195 40	25.97 145
	ACT AND ADDRESS OF THE PARTY OF
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	24.52 109
26 22.98 68 35.45 282 34.166 302 60.91 255 46.242 45.025 317 52.19 282 52.993 3	2 23.43 70
36 23.66 38.27 34.468 35 63.46 253 46.242 317 55.01 53.365 3	22.73
Mittl. Ort 20.97 41.64 31.512 54.44 43.410 49.96 49.472	46.06
sec δ, tg δ 3.576 -3.433 1.043 -0.297 1.164 -0.596 1.252	+0.752
$a, a'$ $\begin{vmatrix} +1.2 & -18.3 &   +2.9 & -18.3 &   +2.8 & -18.3 &   +3.5 \end{vmatrix}$	-18.3
b, b' $  +0.21 - 0.41   +0.02 - 0.41   +0.04 - 0.40   -0.05$	- 0.40

	393) 196 G. Carinae			394) 36 Ur	sae mai	395) 9 H.	Draconis	1273) 219 G.Velorum	
Та	g	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1									
19:	47	10 <sup>h</sup> 25 <sup>m</sup>	-58° 27′	roh 27	56° 14′	10 <sup>h</sup> 30 <sup>m</sup>	+75° 58′	10 <sup>h</sup> 30 <sup>m</sup>	-46°43'
Jan.	r	56.146 <sub>391</sub>	# 45.2T	15.258 468	62.73	40.72	62.36 108	40 572	20.01
Jan.	1I	56.537 327	45.21 316 48.37 346	15.726 468	62 T2 39	41 67 93	63.44 162	42.573 336 42.909 287	29.01 32.10
	21	56.864 255	51.83 365	16.140 347	64 OT	12.5T	65.06 210		35.42 332
	31	57.119		16.487 270	6= 26 135	12.2T	67.16	43.196 230 43.426 169	38.87 345
Febr.	10		TO 22 3/4	16.757 188	67.10 205	1275 34	69.65 277	43.595 107	12 27 330
	346	90	3/7			3°			317
	20	57-394 21	62.96 <sub>365</sub>	16.945 105	69.15 227	28 44.II 18	72.42 294	43.702 45	45.81 332
März	1	57.415 50	1 00.01	17.050 23	71.42	44.29 -	15.30 208	43.747 =	49.13 311
	II	57.365 116	70.09 323	17.073 =	73.81 239	44.28	78.34	43.735 63	52.24 286
	21	57.249 174	13.32 202	17.021 118	76.20 229	44.11	81.24 271	43.672 109	55.10 255
	31	57.075 122	76.25 256	16.903 173	78.49.211	43.78 47	03:95 241	43.563	57.65 219
April	10	56.853 261	78.81	16.730 216	80.60	43.31 68	86.36	43.418 175	59.84 180
37,42	20	56.592 290	80.06	16.514	82.44	43.31 <sub>58</sub> 42.73 <sub>65</sub>	88.38	43.243 197	61.64 139
	30	56.302 311	82.66	16.269 262	83.95	42.08	89.94 106	43.046	1 03.03
Mai	10	55.991	03.09	16.007 265	85.07 70	41.38 73	91.00 52	42.835	63.98 95
	20	55.669 325	84.63 24	15.742 259	85.77 27	40.65 73	$91.52 \frac{3}{3}$	42.616 219	64.49 6
	20				86.04	20.02	07.40	A CONTRACTOR OF THE	64.55
Juni	30	-55-344 319	84.87 84.60 <sub>-6</sub>	15.483 <sub>243</sub> 15.240 <sub>219</sub>	8 - 87	39.93 <sub>69</sub> 39.24 <sub>64</sub>	91.49 58	42.397 <sub>214</sub> 42.183 <sub>204</sub>	64 76 39
Juli	9	55.025 306 54.719 285	83.84 76	15.021 188	85.27 <sub>101</sub>	39.24 64 38.60	1 80 80 109	41.979 188	63.33
	29	54.434 256	82.60 166	14.833	1 X 4 26	18 02 3/	88.23 204	41.791 166	60 10
Juli	9	54.178 219	80.94 205	14.681	82.86	27 55	86.19 204	41.625	60 50
130		THE RESERVE TO STREET,				37			193
	19	53.959 176	78.89 238	14.570 67	81.10	37.16	83.75 279	41.484 109	58.57 220
	29	53.783 125	70.51 262	14.503 21	79.03	36.89 16	80.90	41.375 73	56.37 230
Aug.	8	53.658 67	73.89 270	14.482 = 28	70.08 258	36.73 4	11.09 220	41.302 32	53.90 251
	18	53.591 5	71.10	14.510 80	74.10 276	36.69 -8	74.60 344	41.270 =	51.47 254
	28	$53.586 \frac{3}{63}$	68.25 282	14.590 132	71.34 290	36.77 21	71.10 353	41.283 62	48.93 246
Sept.	7	53.649	65.43 267	14.722 186	68.44 298	36.98	67.63 64.08 355	41.345 115	46.47 231
1463	17	1 53.783	62.76	14.908 242	65.46 302	37.32 34	64.08 355	41.460 168	44.16 204
	27	53.088	60.34 206	15.150 296	62.44 298	27.70	60 -0 350	41.628	42.12 168
Okt.	7	54.203	58.28 162	TE 446	59.40	28.38	57.22	41.850	40.44
	17	54.604 401	56.66	15.796 350	56.56 275	39.09 82	54.05 289	42.123 321	39.19 74
							March Control		08 45
Nov.	27	55.005 450	55.57 50	16.198 448	53.81 251	39.91 92	51.16 253	42.444 <sub>362</sub> 42.806 <sub>104</sub>	0
INUV.	6 16	1 77.477 .0	55.07 13		51.30 223	40.83 99	48.63 212	42.806 394 43.200 414	1 0 60 T
	26	55.942 508	55.20 76 55.96 <sub>139</sub>	1 1 / 1 1 14	49.07 187		46.51 <sub>163</sub> 44.88 <sub>109</sub>	43.200 414	39.67 99
Dez.	6	56.450 514 56.964 502	55.90 139	17.651 535 18.186 538	47.20 146 45.74 08	42.87 109 43.96 110	44.88 109 43.79 51	43.614 <sub>422</sub> <sub>44.036 <sub>416</sub></sub>	41.22 208
5	16.5		57.35 197	538	70	A STATE OF THE PARTY OF THE PAR			
	16	57.466 473	59.32 250	18.724 525	44.76 48	45.06 107	43.28	44.452 398	43.30 254
	26	57.939 420	61.82	19.249 406	44.28 -	46.13 100	43.37 60	44.850 365	45.84 292
	36	58.369	64.76	19.745	44-32	47.13	44.06	44.850 365 45.215	48.76
Mitt	. Ort	55.696	65.92	14.907	71.09	38.72	72.83	42.502	47.52
	$tg \delta$	1.912	-1.630	1.800	+1.497	4.130	+4.007	1.459	-1.062
	a'	+2.2	-18.4	+3.9	-18.4	+5.1	-18.5	+2.5	-18.5
	b'	+0.10	- 0.40	-0.00	- 0.39	-0.25	- o.38	+0.07	- o.38
		The Land Street St.	F 35 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			FOR HOP- HOLD	100000	THE PARTY OF THE P	1 2 2 3

Tag	404) 33 Se	extantis	406) θ (	Carinae	407) 42 Le	onis min.	409) 53 Leonis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1947	10h 38m	-1° 27′	10 <sup>h</sup> 41 <sup>m</sup>	-64° 6′	10 <sup>h</sup> 42 <sup>m</sup>	+30°57′	10 <sup>h</sup> 46 <sup>m</sup>	+10° 49′
Jan. 1	42.082 292	38.90 208	4.14	36.29 301	55.141 340	39.52 83	28.025 305	36.13 166
II	42.374 250	40.98	4.61 40	39.30 336	55.481 306	28 60	28.330 273	34.47
21	42.632	42.92 176	5.01 32	42.66	55.787 262	38.24 45	28.603	33.05 114
31	42.850 173	44.68	5.33 22	42.66 362 46.28 377	56.049	38.TO -	28.836	31.91 86
Febr. 10	43.023 126	46.22	5.55 14	50.05 377	56.260 156	38.52 33 66	29.025	31.05 56
20	12 TAD	47.51 104	5.69 5	53.88 379	56.416 102	39.18	20.166	20.40
März 2	12 228 19	148 66	$\frac{3.74}{3} = \frac{5}{4}$	57.67 366		40 T2 94	29.259 47	20 20
II	2 12 262 =	10.22	35.70 4	61.33 345	3 -6 -66	41.29 132	4 20 206 4/	20 17
21	12008	40.88	5.58 18	64.78 345	56.565	12 OT	20.311	20.26
31	12 220	50.20	5.40 25	67.97 285	56 52T TT	44.00 140	20.28T	20 72 3/
3	,				79		00	3-
April 10	43.153 87	50.31 6	5.15 30	70.82 247	56.442	45.40	29.221 83	31.23 59
20	43.066	50.25	4.85	73.29 203	56.337 124	40.75	29.138 98	31.82 66
30	42.965 108	50.04	4.51 37	75.32 156	56.213	47.98 106	29.040	32.48 67
Mai 10	42.857 111	49.69 46	4.14 30	76.88 107	56.078 139	49.04 87	28.933	33.15 67
20	42.746 108	49.23	3.75 40	77-95 55	55.939 136	49.91 65	28.823 109	33.82 64
30	42.638	48.68 62	3·35 <sub>40</sub>	78.50 3	55.803 128	50.56	28.714 102	34.46
Juni 9	42.536 92	48.06 68	2.95	$78.53 \frac{3}{49}$	55.675 115	50.96 40	28.012	35.05
19	42.444 80	47.38	2.55	78.04 99	55.560	51.11 = 10	28.518 94	25.58
29	42.364 65	46.66 74	2.10	77.05 146	55.460 80	51.01	28.437 66	36.03 45
Juli 9	42.299 48	45.92 72	1.84 31	75.59 189	55.380 58	50.66 35	28.371 49	36.38 25
19	42.251 28	45.20 60	1.53 25	73.70 226	55.322	50.05 84	28.322	26.62
29	12 222	14 CT 09	1.28	7I.44 256	55.287	49.21 108	28.202	$36.75 \frac{12}{1}$
Aug. 8	$\frac{42.223}{42.216} \frac{7}{18}$	42.88	1.08 13	68.88 278	55.278	48.13	28.283	26.74
18	12.231	42.35		66.10 290	55.207	46.83 150	28 208 15	36.57
28	42.277 73	42.96 39	0.90 - 3	63.20 292	55.347 83	45.33 170	28.340 42	36.23 34 53
Sept. 7	42.350 104	42.75		60.28 283	-3		28 410	35.70 74
17	42.454 138	42.75	0.93 <sub>11</sub> 1.04 <sub>20</sub>	57.45 263	55.43° <sub>117</sub> 55.547 <sub>155</sub>	43.63 <sub>188</sub> 41.75 <sub>204</sub>	00 577	24.06
27	12.502	12.00	1.24 29	54.82 232	EE 702	20.71	28 646 133	24 01
Okt. 7	42.592 173 42.765 208	12 50	1.53 37	52.50 190	55.895 233	39.71 <sub>217</sub> 37.54 <sub>226</sub>	28 816	22 82
17	42.973 208	11.2T	1.90 45	50.60 140	56.128 270	35.28 232	200	31.42 161
51.		,					242	
No. 6	43.216 275	45.40 138	2.35 51	49.20 82	56.398 306	32.96 233	29.264 274	29.81 180
Nov. 6	43.491	46.78 165	2.00	48.38 21	56.704 337	1 30.03	29.538 303	28.01 194
16	1 43./92	48.43 186	3.41 50	48.17 44	57.041 262	28.36 216	29.841 325	20.07
Dez. 6	44.114 222	50.29 204	4.00 60	48.61 109	57.403 378	20.20	30.100	24.03 207
Dez. 0	44.44/ 336	52.33 214	4.60 58	49.70 170	57.701 384	173	30.500 344	21.96 205
16	1 1 1 0 220	54.47 218	5.18 56	51.40 227	58.165	22.49 144	30.850	19.91 196
26	45.112	56.65 215	5.74 51	53.67 277	50.542 260	21.05 100	31.109 222	17.95 180
36	45.422	58.80	6.25	56.44	58.902	19.96	31.512	16.15
Mittl. O	t 42.371	44.73	3.65	58.53	55.325	43.21	28.335	34.16
sec δ, tg		-0.026	2.291	-2.06I	1.166	-l-0.600	1.018	+0.191
a, a'	+3.1	−18.81	+2.1	-18.9	+3.3	-18.9	+3.2	-19.0
b, b'	0.00	— o.35	+0.13	- o.34	-0.04	- o.33	-0.01	- 0.32

4 121			1000					TOUR DESIGNATION	ESHIVE SHIP
Та	ď	415) 239 G	. Velorum	416) β Ur	sae maj.	417) a U	rsae maj.	418) x	Leonis
57/1/27	5	AR.	DekL	AR.	Dekl.	AR.	Dekl.	AR.	Dekl
194	47 ·	10 <sup>h</sup> 57 <sup>m</sup>	-41° 56′	10 <sup>h</sup> 58 <sup>m</sup>	+56° 39′	II <sub>p</sub> C <sub>m</sub>	+62° 1′	IIh 2m	+7° 37′
Jan.	I	42.753 345	10.47 288	39.542	51.37	28.78 56	64.70	16.612	25.36 182
	II	43.098 345	T2.25	40.038	51.41 58	20.34	64.0T	16.921 280	23.54 161
	21	43.403 257	16.46 325	40.489	51.99 109	29.85	65.68	17.201 242	21.93 136
	31	43.000	19.71 325	40.880 320	53.08 155	30.30 45	66.97 176	17.443 199	20.57 109
Febr.	10	43.862	23.01 327	41.200	54.63	30.67 27	68.73 214	17.642	TO.48
			327	H. L. T.				THE RESERVE THE PARTY OF THE PA	19
200	20	44.007 89	26.28 317	41.442 160	56.56 221	30.94 18	70.87 243	17.796	18.69 51
März	2	44.096 36	29.45 200	41.602 77	58.77 241	31.12 9	73.30 250	8 17.903 62	18.18
1 P. S.	II	44.132	32.44 276	41.679	01.18	31.21	75.89 266	17.965 20	17.93 <sub>1</sub>
	21	44.118 58	35.20 248	41.678	03.00	31.20	78.55 260	17.985 -6	17.92 19
	31	44.060 94	37.68 217	41.607 132	66.11 232	31.11	81.15 245	17.969 47	18.11
April	10	43.966	39.85 181	41.475 183	68.43 210	30.94 22	83.60 219	17.922	18.46
J. San	20	4004	41.66	41.292 220	70.53 180	30.72 27	85.79 186	T7 852	18 02 4/
	30	12 602 149	43.11 105		72.33 145	30.45 30	87.65	T7.765	TO 40
Mai	10	( 100	144 16	41.072 246 40.826 260	73.78 104	30.15 30		T7 666 99	20 11
	20	43.526 43.349 <sub>183</sub>	14 80	40.566 263	7180	29.83 32	OO TE	17 560	20.75
							95.13 55	103	20.75 64
	30	43.166 183	45.03 19	40.303 256	75.42 15	29.50 32	90.70 8	17.457 102	21.39 62
Juni	9	42.983	44.84 58	40.047	75.57 30	20.18	90.78 -	17.355 06	22.01 58
	19	42.804	44.26 97	39.806 218	75.27 74	28.88	90.37 88	17.259 86	22.59 53
	29	42.034	43.29 122	39.588	74.53 116	28.60	89.49	17.173 74	23.12 45
Juli	9	42.479 137	41.97 163	39.398 156	73.37 156	28.36 20	88.16	17.099 59	23.57 37
	19	42.342 113	40.34 190	39.242	71.81 193	28.16 16	86.42	17.040	23.94 27
	29		38.44 211	39.125	69.88	28.00 10	84.29 245	16.007 43	24 21
Aug.	8	12 1/1	36.33 224	20.050 /3	67.63 253	27 00	81.84 275	16.974	04 25 -
	18	12 004	34.09 229	20 021 -	65.10 277	27 85	79.09 298	16.072	24.24
6213	28	12.082	31.80 225	20.04T	62.33 296	27 85	76.11 317	T6.007	DATE
		32		/-	E DI, - LC	- 1		52	30
Sept.	7	42.114 78	29.55 213	39.113 127	59.37 310	27.92 14	72.94 329	17.049 84	23.81 57
	17	42.192 129	27.42	39.240	50.27	28.06 20	1 60.65	17.133	23.24 79
	27	42.321 180	25.52 160	39.425 243	53.10 320	28.26		17.250	22.45 103
Okt.	7	42.501	23.92	39.668	49.90	28.53	02.95 227	17.403	21.42 128
	17	42.733 280	22.71 74	39.969 359	46.75 304	28.87 40	59.68 313	17.593 227	20.14 151
1 1	27	43.013 323	21.97 22	40.328 413	43.71 285	29.27 47	56.55 291	17.820 261	18.63 172
Nov.	6	43.336 323	21.74 =	40.741 460	40.86	20.74	53.64 260	18.081 292	16.91 190
W LES	16	43.336 360 43.696 386	30	41.201 499	38.27 226	30.26 56	51.04 224	18.373 318	15.01 203
	26	44.082 401	22.04 86 22.90 140	41.700 526	36.01 <sub>185</sub>	30.82 60	48.80	18.691 334	12.98 211
Dez.	6	44.483 403	24.30 190	42.226 540	34.16 185	31.42 61	47.01 179	19.025 334	10.87 213
					3477 - 171		129		the same of the same of
	16	44.886	26.20	42.766	32.78 87	32.03 6r	45.72 74	19.366	8.74 207
	26	45.279 369 45.648	28.54 271	1 43.303 #18	31.91 32	32.64 59	44.98	19.705 325	6.67 195
ATE OF	36	45.648	31.25	43.821	31.59	33.23	44.81	20.030	4.72
Mittl	Ort	42.999	28.54	39.380	60.97	28.43	75.13	17.011	22.55
sec δ,		1.344	-0.899	1.820	+1.520	2.133	+1.884	1.009	+0.134
	a'	+2.8	-19.3	+3.6	-19.3	+3.7	-19.4	+3.1	-19.4
<i>b</i> ,	b'	+0.06	— o.27	—o.10	<b>- 0.26</b>	-o.12	<b>-</b> 0.26	—o.oɪ	0.25

	7 1		1-5-16	421) β Crateris 422) δ Leonis 42			, in 1975		
Та	g	420) ψ Ur	sae maj.	421) β C	rateris	422) 8	Leonis	423) & I	Leonis
		AR.	Dekl,	AR.	DekL	AR.	DekL	AR.	Dekl.
194	7	11h 6m	+44° 46′	11 <sup>h</sup> 9 <sup>m</sup>	-22° 31'	II, II,	+20° 48′	IIh IIm	+15° 42′
Jan.	r	41.324 409	63.66	2.440 315	57.46 259	17.121 332	50.38	27.199 322	70.58
	II	41.733	63.16	2.755 284	00.05	11.433 202	48.96	27.521	68.99
	21	42.10/ 227	63.16 48	3.039 244	02.72 -66	11.155 266	47.87 74	27.816	67.68
The same	31	42.434 271	63.64	3.283	65.38	18.021	47.13 28	28.075	66.69 67
Febr.	10	42.705 209	64.56	3.483 153	67.97 246	18.243 174	46.75 4	28.290 168	66.02
	20	42.914 146	65.88 164	3.636 106	70.43 228	18.417	46.71	28.458 121	65.68
März	2	43.060 82	67.52 184	3.742 60	72.71 206	18.541 77	46.98	28.579	65.65 =
	II	43.142 21	69.39 202	3.802 18	74.77 .82	18.618	47.53	28.054	65.89 47
	21	43.163 =	71.41 206	3.820 =	76.59	18.649	48.30	$28.685 \frac{3^2}{8}$	66.36
	31	43.129 80	73.47 202	3.801 50	78.14	18.640 42	49.23 103	28.677 40	67.01 78
April	IO.	43.049 118	75.49 189	3.751 76	79.41	18.598	50.26	28.637 66	67.79 85
	20	42.931	77.38 169	3.675	80.41 71	18.528	51.33 106	28.571 8	68.64 80
	30	42.784 .6-	79.07	3.581 100	81.12	18.438	52.39 100	28.486	69.53 87
Mai	10	42.617 178	80.50	3.472 117	81.54	18.335	53·39 gi	28.387	70.40 81
	20	42.439 181	81.62	3.355 121	81.69 -	18.224	54.30 78	28.282 108	71.21 74
	30	42.258 178	82.39 42	3.234 121	81.56 38	18.110	55.08 63	28.174 107	71.95 64
Juni	9	42.080	82.81	3.113	81.18 63	17.999 105	55.71	28.067	72.59 52
	19	41.913	82.85 =	2.995	80.55 87	17.894 96	56.16 28	27.967	73.11 39
- 4. 31	29	41.761	82.51	2.884	79.68 106	17.798 84	56.44 9	27.875 80	73.50 23
Juli	9	41.628 109	81.80	2.783 88	78.62	17.714 69	56.53	27.795 66	73.73 8
	19	41.519 83	80.75 139	2.695 71	77.39 137	17.645 51	56.42	27.729 50	73.81
	29	41.436	79.30 160	2.624 51	70.02	17.594	56.11 52	27.679 30	73.72 26
Aug.	8	41.384 20	77.67 108	2.573 27	74-57	17.563 8	55.59 72	27.649 8	73.46
541.00	18	41.364 <del>-</del>	75.69 222	2.546 -	73.10	17.555 18	54.86 94	27.641 -	73.01 64
	28	41.380 56	73.47 245	2.548 34	71.66	17.573 47	53.92 115	27.658 46	72.37 86
Sept.	7	41.436 97	71.02 262	2.582 69	70.31 119	17.620 79	52.77 137	27.704 77	71.51 106
	17	41.533	68.40	2.651	69.12	17.699	51.40	27.781	70.45 128
	27	41.675 -0-	1 05.05	2.759	68.17 66	17.813	49.83	27.892 148	69.17
Okt.	7	41.864	62.80 288	2.908	67.51 .31	17.965	48.07	28.040 186	67.67 160
	17	42.101 284	59.92 287	3.099 233	67.20 -8	18.155 230	46.12 209	28.226 224	65.98 188
	27	42.385 329	57.05 277	3.332 270	67.28	18.385 267	44.03 220	28.450 261	64.10 203
Nov.	6	42.714	54.28 262	3.602	67.77 91	18.052	41.83 227	28.711	62.07 214
	16	4.3.004	51.66	3.602 303 3.905 329	68.68	10.952 227	39.56 226	29.005 221	59.93 220
	26	43.407	49.28	4.234	70.01	19.279	37.30 221	29.320 340	57.73 218
Dez.	6	43.914 440	47.19 172	4.580 353	71.73 205	19.627 348	35.09 208	29.666 350	55.55 212
	16	44-354	45.47 129	4.933 240	73.78	19.985	33.01 188	30.016	53.43 197
	26	44.794 427	44.18 83	5.282	76.10 252	20.343	31.13 163	30.365 338	51.46
	36	45.221	43.35	5.615	78.63	20.690 34/	29.50	30.703	49.69
Mittl	Ort	41.472	71.29	2.883	70.09	17.516	. 51.81	27.618	70.45
sec δ,		1.409	+0.993	1.083	-0.415	1.070	+0.380	1.039	+0.281
a,		+3.4	-19.5	+3.0	-19.5	+3.2	-19.6	+3.2	-19.6
<i>b</i> ,		-0.06	- o.23	+0,03	- 0.22	-0.02	- 0.21	-0.02	- o.2I
		THE PARTY OF THE P	20,5			- 100 7 100 100		12- 2- 5- 6	

Total Land		425) v Ui	rsae maj.	426) 8 C	rateris	427) o	Leonis	428) π C	entauri
Та	ag	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
19	47	11 <sup>h</sup> 15 <sup>m</sup>	+33° 22′	11 <sup>h</sup> 16 <sup>m</sup>	-14" 29'	11 <sup>h</sup> 18 <sup>m</sup>	+6° 18′	11 <sup>h</sup> 18 <sup>n</sup>	-54° 11′
Jan.	I	36.891 364	56.43 100	40.796 313	19.24 242	23.718 316	75 44	34.626	"
	ıı		FF 43	41.109 284	21.66	24.034 289	75.44 192 73.52 191	35.052	39.54 <sub>272</sub> 42.26 <sub>208</sub>
	21	37.589 334 37.589 295	E185	41.393 247		24.323 254	73.52	35.052 379 35.431 324	15 21
	31	37.884 248	$54.71 \frac{14}{28}$	41.640 205	26.43	24.577 213	70.34 119		48.67 333
Febr.	10	38.132	54.99 67	41.845 160	28.65 205	24.790 168	LOOTE	36.017	52.16 349
							91	THE RESERVE TO SERVE	35/
März	20.	38.327 <sub>140</sub> 38.467 <sub>86</sub>	55.66	42.005 115	30.70 184	24.958	68.24 62	36.212	55.73 356
Maiz	12		56.66	42.120 71	32.54 161	25.081 78	67.62	36.340 63	59.29 346
	21	38.553 38.588 35	57.93 147	42.191 30	34.15	25.159 37	67.28	36.403	62.75 330
	31	38.577	59.40	40 OT 4	35.50 111 36.61 8e	25.196	67.18 -	36.404 - 55	66.05 306
	3-		60.99 162	42.214 36	30.01 85	25.196 31	67.30 29	36.349 104	69.11 278
April	10	38.527 82	62.61	42.178 62	37.46 60	25.165 56	67.59 43	36.245 147	71.89 244
	20	38.445 107	04.19	42.116 81	38.06	25.109 76	68.02	36.098 182	74.33 207
5 200	30	38.338	05.07	42.035 95	38.43	25.033 89	68.55 59	35.916	76.40 166
Mai	10	38.214	00.99	41.940	38.58 -	24.944	69.14 64	35.705 222	78.06
	20	38.080 134	68.09 87	41.837 108	38.50 27	24.847 100	69.78	35.472 248	79.28
	30	37.942 136	68.96	41.729 109	38.23	24.747 100	70.42	35.224 257	80.02
Juni	9	27 XOD	60.56	41.620 106	27 77 40	24.647	77.06 04	34.967 259	80.00
	19	37.676	69.87 2	41.514 100	27.T/	24 550 9/	77 66	34.708 259	80 T4
	29	37.557 105	$69.89 \frac{2}{28}$	AT.ATA	26.25	24.461 81	72,22	34.455 242	79.49 <sub>109</sub>
Juli	9	37.452 88	69.61 56	41.323 80	35.43 102	24.380 68	72.71	34.213 223	78.40
	**	00	1985/00-13	00		1456 11 13	42	Mark to the same of	
	19	37.364 68	69.05 85	41.243 65	34.41 109	24.312 53	73.13 31	33.990 196	76.90 186
Aug.	29 8	37.296 45	112	41.178 47	33.32	24.259 36	73.44 19	33.794 163	75.04 217
Trug.	18	$   \begin{array}{ccccccccccccccccccccccccccccccccccc$	65.69	41.131 <sub>25</sub> 41.106 =	32.21 110 31.11 104	24.223 24.208 =	73.63 6	33.631 120	72.87 240
	28	37.243	66 103	41.107	30.07	04.075	73.69 =	33.511 71	70.47 255
		43	04.00 186	41.10/ 30	30.07 91	24.217 36	73.58 30	33.440 16	67.92 261
Sept.	7	37.286 78	62.20 206	41.137 63	29.16	24.253 67	73.28	33.424 46	65.31 256
	17	37.364	60.14 225	41.200	28.42 74	24.320 <sub>101</sub>	72.77 73	33.470 112	02.75
01.4	27	37.481 108	57.89 239	41.300 139	27.91 22	24.421	72.04 08	33.582 179	00.33
Okt.	7	37.639	55.50	41.439 179	27.68 - 9	24.558	71.06	33.761 246	58.16
	17	37.840 243	52.99 258	41.618 219	27.77 44	24.733 214	69.84 147	34.007 311	56.34 138
	27	38.083 284	50.41 259	41.837 256	28.21 81	24.947	68.37 169	34.318 369	54.96 87
Nov.	6	2× 26#	17.82	42.093 290	20.02	25 TOX 1	00.08 .00	34.687	54.09 31
	16	.,0.000	45.28	42.383 216	30.19	25.481	64.80	35.105 455	$53.78 \frac{31}{29}$
	26	276	7	42.699 225	31.71 182	25.792 330 26.122	62.76	33.3 477	54.07 80
Dez.	6	39.417 388	40.63 198	43.034 343	33.53 208	26.122 341	60.62 216	36.037 484	54.96 146
	16	39.805 389	38.65 165	43.377 342	35.61 228	26.463	58.46 213	36.521c	56.42 200
	26	40.194 380	37.00 128	43.719 328	37.89 239	26.803 330	56.33 203	36.997 451	58.42 249
	36	40.574	35.72	44.047	40.28	27.133	54.30	37.448	60.91
Mittl.	Ort	37.222	61.53	41.298	29.30	24.207	72.35	34.946	60.93
sec δ,			+0.659		-0.258		+0.111		—1.387
a,		+3.2	-19.7	+3.0	—19.7		-19.7		—19.7
b,		-0.04	- n.19		- ó.19		- o.18	+0.09	- o.18

Ta	o Cr	429) Grb 1	771 U Maj	433) λ D	raconis	434) <b>ξ</b> ]	Hydrae	436) λ C	entauri
16	ig	AR.	Dekl_	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
19.	47	11 <sub>p</sub> 10 <sub>m</sub>	+64° 36′	11 <sup>h</sup> 28 <sup>m</sup>	+69° 36′	11 <sup>h</sup> 30 <sup>m</sup> .	-31°33'	11 <sup>h</sup> 33 <sup>m</sup>	-62°43′
Jan.	I	43.68 62	63.38	17.36	73.47	22.835 341	35.07 260	19.13	11.40 251
	II	44.30 58	63.43 65	17.36 18.10 70	73.57	23.1/0 077	37.67	19.65	13.QI
	21	44.88 <sub>51</sub>	04.08	10.00	74.28	23.40/ 200	40.44	20.13	16.84 327
	31	45.39	65.28	19.42	75.57 780	23.700	43.31 aga	20.54	20.11
Febr.	10	45.81 33	66.98 213	19.94 41	77.37 224	23.988 180	40.20 283	25.00 25	23.63 366
	20	46.14 23	69.11 244	20.35 30	79.61	24.168	49.03 271	21.13 18	27.29 371
März	2	46.37	71.55 266	20.05	02.10	24.299 82	51.74 200	21.31	31.00 260
	12	46.50 3	74.21 276	20.82	04.9/ 00	24.382 39	1 54.29	21.41	34.69 359
	21	46.53 6	70.97 274	20.86	07.85 -0-	24.42I	50.02	16 21.42 = 5	38.28 340
	31	46.47 15	79.71 260	20.79 18	90.72 273	24.420 36	58.70 181	21.37 12	41.68 315
April	10	46.32 22	82.31 238	20.61	93.45 249	24.384 66	60.51	21.25	44.83 284
	20	46.10 28	84.09 206	20.34	95,94	24.318 90	02.03	21.00	47.67 248
34.	30	45.82 20	86.75 167	19.99	98.10	24.228	63.23 89	20.85 27	50.15 208
Mai	10	45.50 35	88.42	1 19.59	99.05	24.119 122	64.12 56	20.58 30 20.28 33	52.23 164
	20	45.15 36	89.05 75	19.15 47	79	23.997	64.68		53.87 116
	30	44.79 36	90.40 25	18.68	101.93 26	23.866	64.91	19.95	55.03 67
Juni	9	44.43	90.65 =	10.21	102.19 =	23.729 -28	64.82	19.00 26	55.70 16
	19	44.00 22	90.40 74	17.75	101.94 78	23.591	64.41 71	19.24 36 18.88 34	55.86 = 34
T1:	29	43.75 30	89.66	17.31	101.16	23.450	63.70 100	18.88	55.52 84
Juli	9	43.45 26	88.44 166	16.90 36	99.88 174	23.327 118	62.70 125	18.54 34 33	54.68
	19	43.19 22	86.78 208	16.54 30	98.14 218	23.209 104	61.45 146	18.21 30	53.38 173
	29	42.97 16	84.70	10.24	95.96 256	23.105 84	59.99 162	1 17.91 20	51.05 210
Aug.	8	42.81	82.25	15.99 17	93.40 289	23.021 60	58.37 173	17.00	49.55 240
	18	42.70 4	79.49 303	15.82 9	90.51 317	22.961 30	56.64 177	17.45	47.15 263
	28	42.66 -	70.40 325	15.73 2	37.34 339	4	54.87 174	17.31 7	44.52 276
Sept.	7	42.68 9	73.21 339	15.71	83.95 354	22.935 43	53.13 163	17.24	41.76 278
	17	42.77	04.04	15.78	00.41	1 22.9/0 02	51,50 144	17.25 10	38.98 270
Okt.	27	42.94 24	1 00.55	15.95 26	10.19 261	23.004	50.06 118	17.35 18	36.28 250
OKI.	7	43.18 32	02.03	16.21 16.56 35	1 /3.150	1 23.19/ Yma	48.88 84 48.04 46	17.53 27	33.78 220
	17	43.50 40	39:30 332	10.50 44	69.57 343	23.376 226	40	17.80 35	31.58 180
'N.T	27	43.90 46	56.06 310	17.00	66.14 320	23.602	47.58	18.15	29.78
Nov.	6	44.30	1 52.90 282	± / • 7.7 (-	02.94 280	1 23.0/2 200	47.57 45	10.50	20.47
	16	44.09 %	50.14 245	18.14 69	60.05 251	24.181 24.521 362	48.02 92		2/./2 15
Dez.	26 6	45.40 62	47.69 200	18.83 73	57.54 204	24.521 362	40.94 128	19.62 55	27.57 48
Dez.		46.10 65	45.69 149	19.30 77	55-50 150	24.883 362	50.32 179	20.20 58	28.05 110
	16	46.75 66	44.20 93	20.33 78	54.00 92	25.255 371	52.11	20.78 59	29.15 168
	26	47.41 64	43.27 34	21.11	53.08	27.020 200	54.28 247	21.37 55	30.83 223
	36	48.05	42.93	21.88 77	52.77	25.984 358	56.75	21.92	33.06
	Ort	43.38	74.81	16.85	85.73	23.413	50.64	19.53	34.72
	, tg δ	2.333	+2.108	2.872	+2.692	1.174	-o.614	2.182	-1.940
	a'	+3.6	-19.7	+3.6	-19.9	+3.0	-19.9	+2.8	-19.9
0,	b'	—o.14	— o.17	l —o.18	<b>- 0.14</b>	1+0.04	- o.13	+0.13	- o.12

Tag 437) v Leonis		440) 3 Di	raconis	441) χ U1	sae mai	444) β Leonis			
Ta	ıg	AR,	Dekl.	AR.	Dekl.	AR.	Dekl.		Dekl.
1	No.				in the state of th				T 1 10 10 10
19	47	11 <sup>h</sup> 34 <sup>m</sup>	-o° 31'	11 <sup>h</sup> 39 <sup>m</sup>	+67° 1′	11 <sup>h</sup> 43 <sup>n</sup>	+48° 3′	11 <sup>h</sup> 46 <sup>m</sup>	+14°51′
Jan.	1	13.446	46.24 211	32.26 68	65.68	15.201	74.72 78	20.818	66.03 170
10/1/20	11	13.765 294	48.35 199	32.04	$65.55 \frac{13}{48}$	15.643 416	72.04	21.151 311	64.24 150
	21	14.059 261	50.34 180	33.58 58	66.03		73.70		
	31	14.320 223	52.14	44.10	67.10	T6 424 3/3	73.99 81	21.743	6T F6
Febr.	10	14.543 180	53.71 132	34.65 <sup>49</sup>	68.70 207	16.757 264	74.80	21.985	60 72
					20/		12/		50
M=	20	14.723 136	55.03 105	35.05 29	70.77	17.021 201	76.07 165	22.184	60.22 16
März	2	14.859 93	56.08 79	35.34 19	73.21 269	17.222	77.72 196	22.338 109	60.06 -
	12	14.952 52	56.87 53	35.53 7 35.60 - 2	75.90 282	19 17.357 71	79.68 217 81.85 228	19 22.447 66	60.60
	21	15.004	57.40		78.72 284	17.428 10	84.72 228	22.513 27	67.00
	31	15.019 16	57.69 9	35.57 13	81.56	17.438 - 44	84.13 228	22.540 -8	78
April	10	15.003 42	57.78	35.44 21	84.31	17.394 89	86.41	22.532 37	62.00 88
- 75 6	20	14.961 62	57.69 24	35.23 28	100.05	17.305 127	85.00	22.495 60	62.88
	30	14.898	57.45 27	34.95	89.10 187	17.178	90.62	22.435 77	63.82
Mai	10	14.820 88	57.08	34.61 28	90.97	I7.02I	92.39 146	22.358 gi	04.77
	20	14.732 94	56.62 53	34.23 40	92.41 96	16.844 189	93.85	22.267 98	65.68 85
	30	14.638	56.09	33.83 41	02 27	16.655	94.96	22.169 102	66.53 75
Juni	9	14.541	FF FO 39	33.42 40	03.82	16.460	05 68 /4	22.067 102	67.28 75
	19	TA.444	E4 88	22 02	0275	16.267 186	06.00	21.965 100	67.00
	29	14.352 86	54.25 63	22.62	93.17	16.081	95.91	21.865 94	68.30
Juli	9	14.266	53.62 61	32.26	92.09	15.908 173	95.40 gr	21.771 85	68.73 34
	70	77		33				21.686	68.90
	19	14.189 65	53.01 56	31.93 28	90.54	15.752	94.49 130	21.612 74	68.90
Aug.	29 8	14.124 49	52.45 49 51.96 20	31.65 24	88.55	10/	93.19 166	21 552 59	68.71
11u <sub>6</sub> .	18	T4 044	39	31.41 17	86.15 274 83.41 205	15.511 77	91.53 <sub>199</sub> 89.54 <sub>230</sub>	AT #TA	68 22 39
	28	T4 026 -	51.57 <sub>25</sub> <sub>51.32 0</sub>	31.24 <sub>10</sub> 31.14 <sub>4</sub>	80.26	15.434 <sub>42</sub> 15.392 <sub>3</sub>	87.24 <sub>256</sub>	21.513 18	64 40
~		14.030 19	31.32 9		3~9	-		112	02
Sept.	7	14.055	51.23 10	31.10	77.07 347	15.389 41	84.68	21.503 39	66.90
	17	14.105 84	51.33	31.14	13.00 258	15.430 89	01.09 206	21.542 73	65.86
01-4	27	14.189	51.66 59	31.26 20	70.02	15.519 139	70.93 210	21.615 110	64.59 149
Okt.	7	14.310 160	52.25 86	31.46 29	66.39 360	15.658	75.03 217	21.725 151	63.10
	17	14.470 200	53.11	31.75 <sub>38</sub>	62.79 350	15.850 246	72.66 317	21.876 191	61.38
	27	14.670 238	54.24 140	32.13 46	59.29 330	16.096 298	69.49 311	22.067 232	59-47 209
Nov.	6		55.64 166	32.59 53	55.99 302	10.394		22.299	57.38
	16	15.182	57.30 188	33.12 60	52.97 266	16.742	63.42	22.568	55.16
	26	-J'T' J 024	59.18	33.72 66	50.31	17.133 425	245	22.869	52.86
Dez.	6	15.809 324	61.23 216	34.38 69	48.09 171	16.742 391 17.133 425 17.558 448	58.23 206	23.196 327	50.55 227
	16	16.147 340	63.39 221	35.07 70	46.38 114	T8 006	56.17 162	23.539 349	48.28 214
	26	16.487 340	65.60 219	35.77 70	45.24 54	18.464 458 18.018 454	54.55 113		46.14 195
	36	16.487 331 16.818 331	67.79	36.47	44.70	18.918 454	53.42	24.232	44.19
	31 34	E 188 J. Turk				I by the second			
	. Ort	14.039	51.50	32.02	78.02	15.524	84.04	21.428	66.13
	, tg δ	1.000	-0.009	2.563	+2.360	1.497	+1.113	1.035	+0.266
	a'	+3.1	-19.9	+3.4	-20.0	+3.2	-20.0	+3.1	-20.0 - 0.06
0,	b'	0.00	- 0.11	—o.16	- 0.09	I —o.o7	— o.o7	-o.o2	- 0.00

Τος 445) β 3			irginic1)	447) γ Urs	raa mai	450) o V	irginia	452) δ Ce	ntauri
Ta	g	7.7							
1 (-1)		AR.	Dekl	AR.	Dekl.	AR.	Dekt.	AR.	Dekl.
194	47	11h 47 m	+2° 3′	11h 51m	+53° 58'	12h 2m	+9° 1′	12h 5m	-50° 25′
12	14. 1			8		B	,	a	
Jan.	Ι	55.352 325	52.64 209	2.815 492	71.34 69	29.817 332	40.06	35.218 439	17.19 230
	II	55.077 202	50.55 192	3.307 464	70.65	30.149 212	38.09	35.057	19.49 266
S. E. C.	21	55.980	48.63 172	3.771 422	70.54 46	30.461 285	30.34 748	36.065 366	22.15 296
70 L	31	56.252 236	46.91 148	4.193 368	71.00 99	30.746 249	34.86	36.431 317	25.11 316
Febr.	10	56.488 194	45.43 120	4.561 303	71.99 148	30.995 209	33.69 85	36.748 262	28.27 318
15-16-16	20	56.682	44.23	4.864 232	73-47 188	31.204 167	32.84	37.010 203	31.55 333
März	2	56.832 107	43.32 64	5.096 159	75.35 219	31.371 123	32.30 54	37.213 145	34.88 333
	12	56.939 67	42.68	5.255 86	77.54 240	31.494 82	32.07	37.358 89	38.17 319
	21*)	57.006 30	42.30 15	5.341 17	79.94 250	31.576	32.12 3	37.447 37	41.36 303
150	31	$57.036 \frac{3}{3}$	$42.15 \frac{23}{6}$	5.358 46	82.44 250	<sup>24</sup> 31.620 10	32.40 47	$^{24}37.484 \frac{37}{13}$	44.39 281
Annil		SA TELL	200	V The section of		-			
April	20	57.033 30	42.21	5.312 101	84.94 238	31.630 19	32.87 61	37.471 56	47.20 255
		57.003 52	42.44 37 42.81	5.211 146	87.32 219		33.48 72	37.415 95	49.75 223
Mai	30	56.951 68 56.883 81		5.065 183	89.51 191	31.567 62	34.20 77	37.320 129	51.98 189
14.001	20	r6 800	43.28 54 43.82 59	4.882 208	91.42 <sub>156</sub> 92.98 <sub>118</sub>	31.505 76	34.97 79	37.191 157	53.87 151
The Mary	20	50.802 89	43.02 59	4.674 226	92.90 118	31.429 87	35.76 78	37.034 180	55.38 111
1000	30	56.713 93	44.41 61	4.448 234	94.16 75	31.342	36.54 73	36.854 199	56.49 70
Juni	9	56.620	45.02 61	4.214 235	94.91 31	31.248 97	37.27 67	36.655	57.19 26
THE STATE	19	56.526	45.63 60	3.979 220	95.22 =	31.151 97	37.94 58	36.444 210	57.45 -8
5 -01-	29	56.434 88	46.23	3.750 215	95.07 60	31.054 04	38.52 48	36.225 221	57.27 60
Juli	9	56.346 80	46.80 52	3.535 197	94.47 104	30.960 89	39.00 36	36.004 214	56.67 100
	19	56.266	47.32	The second second		30.871 80		25 700	55.67 138
	29	56 106	47.76	3·33 <sup>8</sup> <sub>172</sub> 3.166 <sub>142</sub>	93·43 <sub>145</sub> 91.98 <sub>185</sub>	20 707	39.36	35.79° <sub>202</sub> 35.588 <sub>182</sub>	55.07 138
Aug.	8	F6 T20 3/	48.11 35	3.024 108	90.13 220	20 722	$\begin{vmatrix} 39.59 & 7 \\ 39.66 & \frac{7}{9} \end{vmatrix}$	35.406 182	54.29 171 52.58 198
	18	r6 TOT	18 24 25	2.016	87.93 <sub>252</sub>	20 67T	20 57	35.253 116	50.60 219
100	28	56.084 17	48.42 -8	2.847 24	85.4I <sub>279</sub>	20 620	20.20	35.137 70	48.41 232
		9				1 - 2	The second second		
Sept.	7	56.093 38	48.34 29	2.823 25	82.62 303	30.632	38.82 69	35.067 19	46.09 235
	17	56.131 73	48.05 51	2.848	1 /9.79	30.654 55	38.13	35.048 =	43.74 220
01.	27	56.204	47.54 76	2.927 126	70.39 222	30.709	37.20 116	35.088	41.45 213
Okt.	7	56.314 150	46.78 102	3.063	13.01 228	30.802 133	36.04 140	35.192 171	39-32 187
100	17	56.464 190	45.76 128	3.258 256	69.69 336	30.935 175	34.64 164	35.363 236	37.45 152
11 To 10	27	56.654 230	44.48	3.514 316	66.33	31.110 216	33.00 185	35.599 298	35.93 110
Nov.	6	50.884 266	142.94	3.830	63.06 309	31.326	31.15 204	35.897 355	34.83 60
9 45-00	16	57.150	41.18 196	3.830 372 4.202 422	59.97 283	31.581	29.11	36.252 401	34.23
-457	26	57.448 298	39.22	4.624 461	57.14 250	31.871	26.94 225	36.653 436	$34.23 \frac{7}{49}$
Dez.	6	57.771 323 337	37.10 220	5.085 490	54.64 207	32.187 335	24.69 227	37.089 457	34.65 103
2	-6	537	100		1 111				
1 3 3 3	16 26	58.108 342	34.90 221	5.575 504	52.57 159	32.522	22.42 222	37.546 464	35.68 156
100		58.450 337 58.787	32.69 217	6.079 503	50.98 106	32.005	20.20 210	38.010 455 38.465	37.24 205
	36	50.707	30.52	6.582	49.92	33.206	18.10	30.405	39.29
Mittl	. Ort	56.010	48.45	3.092	82.04	30.540	38.43	36.114	38.05
sec δ.		1.001	+0.036	1.701	+1.376	1.013	+0.159	1.570	-1.210
	a'	+3.1	-20.0	+3.1	-20.0	+3.1	-20.0	+3.1	-20.0
Ъ,	b'		- o.o5	-0.09	- 0.04	-0.01	+ 0.01	+0.08	+ 0.02

 <sup>1)</sup> Die jährliche Parallaxe (o."xox) ist bereits berücksichtigt.
 \*) Bei Stern 450) und 452) lies März 22.

1			<u>a</u> . 1	\ T	( 0 )	C) D TT	200		
Ta	œ	453) €		454) Br 16		456) 8 Ui		459) β C	hamael.
1400		AR.	Dekl.	AR.	Dekl.	AR.	Dekl	AR.	Dekl.
19	47	12 <sup>h</sup> 7 <sup>m</sup>	-22° 19′	12 <sup>h</sup> 9 <sup>m</sup>	+77° 54′	12 <sup>h</sup> 12 <sup>m</sup>	+57° 19′	12 <sup>h</sup> 15 <sup>m</sup>	-79° ₀′
Jan.	I	22.818	17.59 235	45.09 120	24.25 25	48.283	25.15 86	10.28	39.04
	II	23.160	19.94 246	46.29 114	24.00 = 3	48.813	24.29 25	11.49 113	40.77
	21	23.481	22.40	47.43 106	24.41 104	49.321 470	24.04 = 34	12.62	43.04 275
	31	23.772 255	24.89	48.49 94	25.45 162	49.791	24.38 92	13.63 88	145.79
Febr.	10	24.027 213	27.36 237	49.43 79	27.07 212	50.208 354	25.30 144	14.51 72	48.95 346
		The second second		/ 7			-11	Section 1991	340
März	20	24.240 170	29.73 223	50.22 61	29.19 254	50.562 282	26.74 189	15.23 55	52.41 369
Marz	2 12	24.410 127	31.96 205	51.24	31.73 283	50.844 204	28.63	15.78 38 16.16 38	50.10 282
	22	24.537 8 <sub>5</sub> 24.622	34.01 185	FT 46	34.56 <sub>301</sub>	51.048 <sub>126</sub> 51.174 <sub>50</sub>	30.87 249	16.37	59.93 387 63.80 284
	31	25 24 660 47	35.86 161	25 - 40 -	37.57 <sub>306</sub> 40.63 <sub>299</sub>	26	33.36 <sub>262</sub> 35.98 <sub>266</sub>	$^{27}16.40 \frac{3}{14}$	67 61 304
	3-	-3	37.47 138	51.40 18				14	3/1
April	10	24.682	38.85 113	51.30 34	43.62 280	51.203 83	38.64 257	16.26	71.35 352
	20	24.665	39.98 88	50.96	46.42	51.120 -28	41.21	15.97 45	14.01 226
S. E. E	30	24.623 63	40.86	50.46 62	48.93	50.982	43.00 213	15.52 58	70.13 203
Mai	10	24.560 81	41.50 39	49.84 73	51.00 168	50.798 218	45.73	14.94 70	81.06
	20	24.479 <sub>93</sub>	41.89 15	49.11 80	52.74 118	50.580 244	47.52 139	14.24 81	83.60
	30	24.386 104	42.04	48.31 85	53.92 65	50.336 261	48 OT	13.43 80	85.70 161
Juni	9	24.282	4T OF 9	17 16	E4 57	50.075 267	40.87	T2 54	87.31 108
	19	24.172	11.64	46.59 86	F1.66	49.808 267	50.36 49	TT.50 93	88 20
	29	24.058 114	41.12	45 52	54.19 100	49.541	$50.38 \frac{2}{46}$	10.60 100	88.04
Juli	9	23.944	40.39 90	45.73 8 <sub>3</sub> 44.90 <sub>78</sub>	53.19 152	49.282 243	49.92	9.60 99	88.93 56
		THE RESERVE THE PROPERTY OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TO THE PERSON NAMED IN COLUMN TWO IN COLUMN TO THE PERSON NAMED IN COLUMN TWO IN COLUMN TO THE PERSON NAMED IN COLUMN TWO IN COLUMN TWIN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN	90	/0			7-		7-
	19	23.834 103	39.49 105	44.12 71	51.67 202	49.039 222	49.00 138	8.61 7.67 94	88.37 109
Aug.	29 8	23.731 <sub>91</sub> 23.640 <sub>74</sub>	38.44 115	43.41 63	49.65 245	48.817 194	15 80	6.81	87.28
irug.	18	23.566 74	37.29 <sub>123</sub> 36.06 <sub>124</sub>	42.78 52 42.26 40	47.20 284	48.623 160 48.463 119	45.62 220	6.06 75	85.69 204 83.65 242
	28	02 574	30.00	17 86	44.36 319	48.344 74	43.62 254 41.08 286	5.44	81.23 272
	20	23.514 24	34.82 120	41.00 28	41.17 319			3-77 45	
Sept.	7	23.490 10	33.62	41.58 14	37.72 367	48.270 21	38.22 311	4.99 27	78.51 291
	17	23.500 47	32.52	41.44 -	34.05	48.249 =	35.11 222	4.72 6	75.00
	27	23.547 go	31.58	41.45 17	30.25 387	48.284 08	31.79 246	4.66 =	72.01
Okt.	7	23.637 135	30.87 44	41.62	20.30 .0.	48.382 163	28.33 354	4.81	00.04
-	17	23.772 181	30.43 <sub>10</sub>	41.94 49	22.54 374	48.545 231	24.79 354	5.18 58	66.82 255
	27	23.953 226	30.33 26	42.43 64	т8.80	48.776 298	21.25 346	5.76 78	64.27 217
Nov.	6	24.179 -(0	20 50	12.07		49.074 262	1 17.70	6.54	02.10
	16	24.447	30.59 65	1286	12.00 289	49.436	14.50 200	7.49 109 8 r8	60.41
	26	24.751 332	32.28	43.50 93		49.856	270	8.58 119	59.27 54
Dez.	6	25.083 332 350	33.69 175	45.83 112	6.68 243	49.436 420 49.856 470 50.326 507	8.75 229	9.77 126	58.73 10
	16	25.433 357	35.44 203	46.95 118	4.78 131	50.833 530	6.46	11.03 127	58.83 75
	26	25.790 252	37.47 226	48.13	3.47 67	51.303 526	4.67 124	12.30 126	59.58
	36	26.143	39.73	49.34	2.80	51.899	3.43	13.56	60.95
	. Ort	23.666	30.12	44.37	38.27	48.665	36.94	11.62	64.77
	, $tg \delta$	1.081	-o.4II	4.775	+4.669	1.852	+1.559	5.249	-5.x53
	a'	+3.1	-20.0	+2.8	-20.0	+3.0	-20.0	+3.5	-20.0
<i>b</i> ,	b'	+0.03	+ 0.03	-o.31	+ 0.04	<u>-0.10</u>	+ 0.06	+0.34	+ 0.07

-	5.34	460) ŋ V	Jirginis	462) α C	rucis m	466) 20	Comae	465) δ	Corvi
T:	a.g	AR.	Dekl.	AR.	Dekl.	AR.	DekL	AR.	DekL
19.	47	12 <sup>h</sup> 17 <sup>m</sup>	-o° 22'	12 <sup>h</sup> 23 <sup>m</sup>	-62° 47′	12 <sup>h</sup> 27 <sup>m</sup>	+21° 10′	12 <sup>h</sup> 27 <sup>m</sup>	-16° 13′
Jan.	1	8 7777	TE OT	5 27 T2	r7 TO	6 2 724	70.01	6.108	3.83 225
oun.	II	10.711 331 11.042	15.91 18.06 202	37.13 <sub>58</sub> 37.71 <sub>54</sub>	57.19 192	2.724 <sub>352</sub> 3.076 <sub>337</sub>	79.01 <sub>185</sub> 77.16 <sub>151</sub>	6 448 340	6.08 231
	21	11.356 314		38.25 50	59.11 240 61.51 281	3.413 337	75.65 112	6.771 298	8.39 228
	31	11.644	OT 00	20 75	64 00	3.725 280	71 52	7.069 265	10.67
Febr.	10	11.899 218	23.54 136	39.19 36	67.45 313	4.005 241	72 ST	7.334 227	12.88 209
			136	- 11 - 61 - 7	336		73.01 31	The same of the	
7.0	20	12.117	24.90 108	39.55 29	70.81 350	4.246 199	73.50 8	7.561 187	14.97 191
März	2	12.294 135	25.98 81	39.84 22	14.31 258	4.445 155	73.58 43	7.748	16.88
	12	12.429 96	26.79 54	40.06	77.89 257	4.600	74.01	7.895 106	18.59 149
	22	12.525 59	27.33 30	20 40.21 7	81.40	30 4.711 69	74-75 99	30 8.001 69	20.08
	31	12.584 25	27.63 8	40.28	84.93 347	30 4.780 31	75.74 117	8.070 36	21.35 103
April	10	12.609	27.71	40.28	88.25 310	4.811	76.91 <sub>129</sub>	8.106	22.38 81
	20	12.606	27.60 26	40.22	91.35 282	4.810	78.20 133	8.111 3	23.19 60
	30	12.579 48	27.34	40.09 18	94.17 250	4.780 30	79.53	8.091 42	23.79 38
Mai	10	12.531 64	26.95	39.91 22	96.67	4.726	80.85	8.049 61	24.17 19
	20	12.467 76	26.47 54	39.69 26	98.78	4.653 88	82.10	7.988 76	24.36
	20	I The marks of		1184 (20)		1 1 1 2 3		7.070	=
Juni	30 9	12.391 86	<sup>25.93</sup> <sub>58</sub>	39·43 <sub>30</sub>	100.48	4.565 <sub>99</sub> 4.466 <sub>105</sub>	83.24 84.23 80	7.912 88	24.37 17 24.20
- Juin	19	12.303 92	25.35 61	39.13 33	101.73 77	4.400 105	85.03 60	7.726	23.86
	29	12.118 95	24.74 61 24.13 to	38.80 34 38.46 35	102.50 28	4.361 109	85.63	7.622	23.37 49
Juli	9	12.022 96	00 54 39	38.11 35		4.252 <sub>111</sub> 4.141 <sub>107</sub>	86 OT 36	7.623 107 · 7.516 106	22.74
99911	,	93	23.54 56	33	102.57 70		14		74
	19	11.929 87	22.98	37.76 33	101.87 116	4.034 101	86.15 10	7.410 103	22.00 83
Saria.	29	11.842	22.47 42	37.43 22	100.71 158	3.933 or	86.05 36	7.307 94	21.17 00
Aug.	8	11.705 64	22.05 33	37.11	99.13 196	3.842 76	85.69 61	7.213 80	20.27 92
	18	11.701	21.72 20	36.84	97.17 227	3.766 58	85.08 87	7.I33 <sub>62</sub>	19.35 91
	28	11.656	21.52 4	36.62 16	94.90 251	3.708 34	84.21	7.071 38	18.44 85
Sept.	7 .	11.635	21.48	36.46	92.39 263	3.674	83.08 138	7.033 7	17.59 74
31.6	17	11.642	1 07 60	26 27	89.76 267	2660	81.70 164	$7.033 \frac{7}{28}$	16.85
	27	TT 682 40	27.00	36.37 8	87.09 260	3.698 68	80.06	7.054 69	T6 28 3/
Okt.	7	11.760 70	22.59 86	36.45	84.49 242	3.766	78.19 209	7.123 112	15.92 36
	17	11.879 162	23.45 112	36.63 27	82.07 212	3.876	76.10 228	7.235 158	15.82 =
	05					- 74			16.02
Nov.	27 6	12.041 203	24.57 139	36.90 <sub>35</sub>	79.95 173	4.030 198	73.82	7.393 203	E2
1101.	16	12.244	25.96 164	37.25 44	78.22 125	4.228 242	71.38 254	7.596 246	16.55 87
	26	12.488 280	27.60 187	37.69 50	76.97 72	4.470 282	68.84 259	7.842 <sub>284</sub>	17.42
Dez.	6	12.768 309	29.4/ 204	30.19 26	10.23 14		3 266	8.126 315	18.63 <sub>152</sub> 20.15 <sub>181</sub>
202.		13.077 329	31.51 216	38.75 59	76.11 46	5.066 314	63.69 247	8.441 336	
	16	13.406 340	33.67 222	39·34 <sub>60</sub>	76.57 105	5.405 5.758 353	61.22	8.777 348	21.96 203
	26	13.746 339 14.085	35.89 221	39.94 60	77.62 162	5.758 357	58.92 205	9.125 348	23.99 219
	36	14.085	38.10	40.54	79.24	5.75 <sup>8</sup> 357 6.115	56.87	9.473	26.18
Mittl	Ort	TT CCO	20.64	28 24	80.50		Qr Q4	7.057	T4.04
sec δ,		11.553	20.64	38.34 2.188	80.59	3.532	81.84 +0.388	7.071	14.04 0.201
a,		1.000	-0.007 -20.0	A CONTRACTOR OF THE PARTY OF TH	-1.946 -10.0	Contract to the contract of th	-19.9	1.041 +3.1	0.291 19.9
<i>b</i> ,		+3.I 0.00	+ 0.07	+3.3 +0.13	-19.9 + 0.10		+ 0.12	+0.02	+ 0.12
-,		0.00	0.07	0.13	0.10	0.03	0.12	The second	3/1/4

Tag	470) B Can	um ven.1)	472) x I	raconis	471) ß	Corvi	473) 24 C	omae sq		
<u> </u>	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.		
1947	12h 31m	+41°38′	12 <sup>h</sup> 31 <sup>m</sup>	+70° 4′	12 <sup>h</sup> 31 <sup>m</sup>	-23° 6′	12 <sup>h</sup> 32 <sup>n</sup>	+18°39′		
Jan. 1	13.048 411	33.97 144	13.64 78	34.62	34.870 350	1.37 223	27.432 348	64.80		
11	1 3.459 207	32.53 93	14.42	33.87 75	35.220 334	3.00		62 88 192		
21	13.856	31.60 39	- ) - /	33.76 =	1 35.554 200	5.40	28.114	6т 28		
3 <b>T</b>	14.220	31.21 -	1 15.00 .	34.29	35.803	0.30	20.425 200	60.04 85		
Febr. 10	14.560 288	31.36 65	16.52	35.44 171	36.138 236	10.79 234	28.705 242	59.19 46		
20	14.848 236	32.01	17.07 45	37.15 217	36.374 196	13.13 223	28.947 201	58.73 7		
März 2	15.084	33.13	17.52	39.32	30.570	15.30	29.148 158	58.66 =		
12	15.266 126	34.64 183	1/.00 21	41.87	36.724	17.42	29.306	58.94 59		
22	15.392 73	36.47 205	18.07 9	44.68 294	36.838 75	10.20	29.421 75	59.53 85		
31	15.465 23	38.52 216	$3^{1}$ 18.16 $\frac{9}{2}$	47.02 297	3136.913 40	20.96 144	29.496 38	60.38		
April 10	15.488	40.68	18.14	50.59 286	36.953 9	22.40	29.534 5	61.42		
20	15.467 60	42.88 214	TAOT	53.45 265	36.962 18	23.01	29.539 =	62.59 122		
Mai 10	15.407 93	45.02 199	17.70	56.10 235	36.944 42	24.58	29.516 47	63.82		
Mai 10	15.314 120	47.01 177	17.47 28	58.45 196	36.902 63	25.32 51	29.469 67	65.06 120		
	15.194 139	48.78	17.09 44	60.41 153	36.839 79	25.83 27	29.402 81	66.26		
30	15.055 153	50.29 118	16.65 46	61.94 104	36.760 93	26.10	29.321 93	67.37 97		
Juni 9	14.902	51.47 83	10.10	02.98 52	36.667 104	26.15 = 3	29.228 101	68.34 82		
19	14.739 167	52.30 45	15.70 50	03.50 2	36.563 111	25.97 38	29.127 106	69.16		
29 Juli 9.	14.572 166 14.406 161	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	15.20	63.48	36.452	25.59 59	29.021 108	69.80		
		33	14.71 47	62.94 107	36.335 117	25.00 77	28.913 106	70.23		
19	14.245 150	52.48 72	14.24	61.87	36.218	24.23 92	28.807 101	70.45		
Aug. 8	14.095	50.66	13.80 44	1 00.30	36.104 105	23.31 105	28.706 92 28.614 70	70.44 24		
18	13.958 117 13.841 03		13.40 13.06 29	58.27 245	35.999 <sub>.92</sub>		28.535 61	70.20 69.71		
28	T2 740	49.19 182 47.37 213	12.77 21	55.82 284 52.98 317	35.907 72 35.835 47	21.12 118 19.94 116	08 474	68 08 73		
0	600			32.96 317	The second second		3378 600	90		
Sept. 7	T2 662	45.24 243	12.56 12.43 4	49.81	35.788	18.78 109	$28.436$ $28.427 \frac{9}{23}$	68.00		
27	T2 678	42.81 267 40.14 289	$12.43 \frac{4}{6}$	40.31 060	35.773 = 35.795 6s	17.09 <sub>96</sub> 16.73 <sub>77</sub>	28 450	65.28		
Okt. 7	13.739 111	37.25 305	12.45 16	42.74 377 38.97 384	25 860	T5.06 "	ag err	62 55 1/3		
17	13.850 163	34.20 316	12.61	35-13 384	35.971 158	TE AE 31	28.615 <sub>147</sub>	61.59 216		
27	A STATE OF THE PARTY OF THE PAR		12.86	The second secon	OF THE RESERVE TO A PARTY OF THE PARTY OF TH		6			
Nov. 6	14.013 <sub>216</sub> 14.229 <sub>268</sub>	31.04 319	12.00 37	31.33 369	36.129 <sub>206</sub>	15.24 <sub>13</sub> 15.37 <sub>51</sub>	28.762	59.43 233		
16	TA 407	27.85 316 24.69 305	13.23 47	27.64 348 24.16 310	36.335 <sub>252</sub> 36.587 <sub>291</sub>	15.88 88	28.954 <sub>236</sub> 29.190 <sub>275</sub>	57.10 <sup>246</sup> 54.64 <sup>253</sup>		
26	14.812 356	21.64 284	13.70 56 14.26 64	20.97 280	36.878 323	16.76	29.465 308	52.II 253		
Dez. 6	15.168 356	18.80 256	14.90 70	18.17 232	37.201 323	18.01 159	29.773 333	49.58 246		
16	15.555	16.24 220	15.60	15.85 178	37.547 359	19.60 189	30.106 248	47.12 232		
26	15.962	14.04	16.35 78	14.07	37.900 200	21.49 213	30.454	44.80		
36	16.377	12.29	17.13	12.90	38.265	23.62	30.807	42.69		
Mittl. Ort	13.746	42.82	13.86	48.50	35.893	13.88	28.283	66.89		
$\sec \delta$ , $\tan \delta$		+0.889		+2.759	The state of the s	-0.427		+0.338		
a, a'	+2.9	-19.9		-19.9	The state of the s	-19.9		-19.8		
b, b'	<b>-0.06</b>	+ 0.14	-o.18	+ o.14	+0.03	+ 0.14	-0.02	+ 0.14		

<sup>1)</sup> Die jährliche Parallaxe (o."108) ist bereits berücksichtigt.

H 47

1.47	Scholingto Stornorter 1941									
Ta	ıg	474) α	Muscae	1325) 133 G	. Centauri	478) 76 U	rsae maj.	481) β	Crucis	
		AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	
194	47	12 <sup>h</sup> 33 <sup>m</sup>	-68° 50'	12 <sup>h</sup> 38 <sup>m</sup>	-45°51′	12 <sup>h</sup> 39 <sup>m</sup>	+62° 59′	12 <sup>h</sup> 44 <sup>m</sup>	-59°23′	
Jan.	I	58.47 71	12.88	26.390 427	1.28 <sub>201</sub>	14.87 61	60.18 105	35.047 546	34.86	
	II	59.10 60	14.50	26.817	3.29 226	TE 48	59.13 42	35.593 521	36.59 219	
	21	I FO X6	16.77	21.224	5.05 264	10.01	58.71 =	36.114 483	38.78 259	
39493	3 <b>I</b>	60.48	19.42	27.000 227	8.29 286	10.03	58.93 84	36.597 434	41.37 202	
Febr.	10	01.03 47	332	21.931 290	11.15 299	17.14 45	59.77 140	37.031 376	44.29 316	
М"	20	61.50 38	25.76 352	28.227 240	14.14 304	17.59 36	61.17	37.407 312	47.45 332	
März	2	07.00 0	29.28 364	28.407	303	17.95	03.07	37.719	50.77 24.1	
	12	62.16 20	32.92 368	28.057	20.21 296	18.24	05.37 260	37.966 180	54.18 341	
	22 31*)	62.36	36.60 363	20.790 ot	23.17 283	18.43	67.97 278	38.146	57.59	
A mudi		31 62.47 1	40.23 352	28.887 45	26.00 265	18.53 1	70.75 284	38.261 53	60.94 333	
April	10	62.48	43.75 333	28.932	28.65 242	18.54 6	73.59 279	38.314 6	64.16	
	20	62.41	47.08 308 50.16 378	$28.935 \frac{3}{35}$	31.07 217	10.40	70.30 264	38.308 60	07.19 279	
Mai	30	62.27 22		28.900 69	33.24 188	18.34 20	79.02 239	38.248	69.98 249	
mu	20	62.05 28	52.94 241	28.831 99	35.12	18.14 25	81.41 206	38.137	72.47 215	
		61.77 34	55.35 199	28.732 126	36.67	17.89 29	83.47 165	37.980 198	74.62	
Juni	30	61.43 39	57.34 154	28.606	37.88 84	17.60 17.28 32	85.12	37.782 233	76.39 135	
Juin	9	61.04 43	58.88 106	28.457 167	38.72	17.28	86.33 73	37.549 263	77.74 oi	
	29	60.61 43 60.15 47	59.94 55	28.290 181	39.17 7	16.94 34 16.60 34	87.06	37.286 284	78.65 45	
Juli	9	59.68 47	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	28.109 190	39.24 - 31 38.93 60	1 10.00	87.28 <del>29</del> 86.99 <del>70</del>	37.002 299	79.10 -2	
			60.04	27.919 193		16.25 35 34	/9	36.703 304	79.08 49	
	19 29	59.21 46	1 50 06	27.726 189	38.24 105	15.91 31 15.60 20	86.20	36.399 300	78.59 93	
Aug.	8	58.75 43 58.32 39	57.60 146	27.537 178	37.19 137	15.00 29	84.92	36.099 284	77.66	
	18	57.93 39	55.73 224	27.359 159 27.200 131	35.82 164 34.18 186	15.31 <sup>25</sup> 15.06 <sub>21</sub>	83.17 218	35.815 258	76.30 174	
	28	57.61 24	53.49 252	27.069 96	32.32 200	14.85 16	80.99 257 78.42 292	35·557 <sub>218</sub> 35·339 <sub>168</sub>	74.56 206 72.50 230	
Sept.	7	57.37 15	50.97 200	26.973 52	30.32	14.69 10	75.50	35.171 106	70.20 246	
	17	57.22 5	48.27 280	26.921	28.24	14.59	172.20	35.065 35	67.74 252	
	27	57.17 6	45.47	26.920	20.18	14.55	68.84 345	$35.030 \frac{35}{45}$	05.22	
Okt.	7	57.23 18	42.70 262	20.977 778	24.22	14.59	65.22 372	35.075	02.73 2.24	
	17	57.41 30	40.07 238	27.095 182	22.47 146	14.71 19	61.50 374	35.204 214	60.39 209	
- Fresh	27	57.71 .41	37.69 202	27.277 244	21.01	14.90 28	57.76 268	35.418 297	58.30 174	
Nov.	6	58.12 51 58.63 60	35.07	1 27 F2T	19.91 66	15.18	57.76 368 54.08 353	1 35.715	56.56 131	
	16	58.63 60	34.10	21.023	19.25 19	1 15.54 42	50.55.220	36.089 374 36.089 442	55.25 81	
T) . =	26	59-23 67	33.06 47	20.1/5 202	19.00 32	1 15.97	47.26 294	36.531 496	54.44 26	
Dez.	6	59.90 71	32.59 14	20.507 421	19.38 83	16.47 55	44.32 252	37.027 534	54.18 = 31	
	16	60.61	32.73 75	28.988 437	20.21	17.02 58	41.80	37.561 554	54.49 87	
	26	61.34 73 62.07	33.48	29.425	21.52	17.00 61	39.78	38.115 258	55.36	
	36	62.07	34.83	29.862 437	23.29	18.21	38.34	38.673	56.78	
Mittl.		59-99	37.17	27.613	20.64	15.38	73.34	36.526	57.29	
sec 8,		2.771	-2.584	1.436	-1.030	2.203	+1.963	1.964	-1.691	
<i>a</i> ,		+3.6	-19.8	+3.3	<b>—19.8</b>	+2.6	-19.7	+3.5	-19.7	
<i>b</i> ,	0	+0.17	+ 0.15	+0.07	+ 0.17	—o.13	+ 0.17	+0.11	+ 0.19	

<sup>\*)</sup> Bei Stern 1325), 478) und 481) lies April 1.

Ta	Le T	482) 150 G.	Centauri	483) ε Urs	ae maj.	484) 8 T	7irginis	486) 8 D	raconis
STORY.	0	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
19	47	12 <sup>h</sup> 50 <sup>m</sup>	-39° 53′	12h 51	+56° 14′	12h 52m	+3° 40′	12 <sup>h</sup> 53 <sup>m</sup>	+65° 42′
Jan.	I	28.265 403	9.95 196	41.460	37.64 137	54.884 335	69.01	21.68 65	78.45 117
	II	20.000 -0	11.91	41.975 507	36.27 76	55.219 335	00.00	22.33	77.28 52
	21	29.055 -	14.19 201	42,402	35.51 14	55.544 306	04.90	22.98 62	76.76 ==
	31	29.415 226	10.70 268	42.964	35.37	55.850 278	03.13	23.60	76.88
Febr.	10	29.741 285	19.38 277	43.407 391	35.84 105	56.128 245	61.63	24.17 51	77.63
	20	30.026	22.15 280	43.798 328	36.89	56.373 208	60.42	24.68 42	78.98 187
März	2	30.268	24.95	44.120 250	30.40 200	56.581	59.52 60	25.10	80.85
	12	30.403	27.72 267	44.385 188	40.40	50.751	58.92	45.43	83.14 262
	22	30.612 105	30.39 254	44.573	42.80	56.882	58.61	25.00	85.70
April	I.	30.717 64	32.93 236	44.688	45.37 269	56.976 60	58.57 18	25.80 4	88.58 292
	10	30.781 25	35.29 215	44.733 20	48.06 270	57.036	58.75 37	25.84	91.50 289
	20	30.806	37.44 TOT	44.713 -9	50.70 250	57.000	59.12 51	25.79 14	94.39
	30	30.797 41	39.35 -64	44.635	53.35 241	57.068 =	59.63 6r	25.65	97.14 251
Mai	10	30.756 60	40.99 126	44.500	55.76	57.047 41	60.24 68	25.45 27	99.050
	20	30.687 95	42.35 104	44.334 207	57.89 178	57.006 59	60.92 71	25.18 32	101.83 179
	30	30.592	43.39 72	44.127 233	59.67	56.947 73	61.63 72	24.86	103.62 135
Juni	9	30.475	44.11 39	43.894 257	6r.06 94	56.874 84	62.35 60	1 24.21 28	104.97 86
	19	30.340	44.50 5	43.643 262	62.00 48	56.790 93	63.04 65	24.13	105.83 35
100	29	30.191 160	44.55 20	43.380 266	62.48	56.697	63.69 58	23.73	106.18
Juli	9	30.031 165	44.26 62	43.114 262	62.48 49	56.598 102.	64.27 50	23.33 39	106.00 69
	19	29.866 165	43.64 92	42.852 252	61.99 96	56.496 102	64.77 40	22.94 <sub>38</sub> 22.56 <sub>35</sub>	105.31 120
	29	29.701	42.72	42.000	61.03	56.394 97	65.17 29	22.56 35	104.11 167
Aug.	8	29.543	41.52	42.300 210	59.62 185	56.297 87	65.46	22.21 31	102.44
	18	29.399 121	40.08 162	42.156	57.77 226	56.210 74	65.61	21.90 27	100.30 254
	28	29.278 92	38.46	41.978 139	55.51 261	56.136 53	65.60 19	21.63 27	97.76 291
Sept.	7	29.186	36.71 181	41.839 94	52.90 294	56.083 28	65.41 38	21.41	94.85 322
	17	29.132 8	34.90	41.745 40	49.90	56.055 -	65.03 61	21.26 8	01.63
0.	27	29.124 43	33.13 166	41.705 19	40.15 242	56.059 41	64.42 84	21.18	00.10
Okt.	7	29.167 99	31.47 148	41.724 83	43.33 256	56.100 81	63.58 108	21.18 8	378
	17	29.266	29.99 120	41.807 151	39.77 364	56.181 126	62.50 134	21.26 8	383
136	27	29.423 215	28.79 85	41.958 221	36.13 364	56.307 171	61.16 159	21.43 26	76.88 377
Nov.	6	29.638	27.94 46	1 12.T70	1 32.40	1 50.478	159.51 181	21.69	73.11 363
136	16	29.900 310	27.48	42.469	28.94 336 25.58 308	56.692 254	57.76	22.04 44 22.48 51	73.11 363 69.48 340 66.08 306
400	26	30.227	27.47 =	42.024 412	25.58 308	56.946 289	55.70	22.48 51	66.08 306
Dez.	6	30.586 359	27.92 91	43.237 459	272	57.235 315	53.61 224	22.99 57	63.02 265
	16	30.975 406	28.83 136	43.696	19.78 226	57.550 333	51.37 227	23.56 62	60.37 214
	26	31.381	30.19 175	44.190 612	17.52	57.883	49.10	24.18 65	58.23 157
1	36	31.791	31.94	44.703	15.78	58.222	46.89	24.83	56.66
	l. Ort	29.548	27.42	42.178	49.90	55.919	66.29	22.28	92.16
	δ, tg δ	1.303	-o.836	1.800	+1.496	1.002	+0.064	2.432	+2.217
	, a'	+3.3	<b>—19.6</b>	+2.6	-19.5	+3.1	-19.5	+2.4	-19.5
Ъ,	b'.	+0.05	+ 0.22	-0.10	+ 0.22	0.00	+ 0.23	<del>-0.14</del>	0.23
BR. VS								H* 4	47

m	ag	485) α Can	. ven. sq	488) E V	Virginis	490) &	Virginis	492) β C	omae <sup>1</sup> )
3 - 1	яg	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
19	947	12 <sup>h</sup> 53 <sup>m</sup>	+38° 35′	12 <sup>h</sup> 59 <sup>m</sup>	+11° 14′	13 <sup>h</sup> 7 <sup>m</sup>	-5° 15′	13 <sup>h</sup> 9 <sup>m</sup>	+28° 8′
Jan.	Ι	32.194 398	66.69	31.216	36.97 210	10.989	17.75 215	23.041 363	40.96 198
	II	32.592 280	64.95	1 2-,222 221	34.87		10.00	23.404 257	38.98
	21	32.981 370	03.71	31.000 212	33.00	11.055	21.98	23.761 337	37.41 112
HE ST	31	33.351 228	62.99 18	32.199	31.42	1 11.90/ -06	23.95 180	24.102 314	36.29 65
Febr.	10	33.689 298	62.81 = 34	32.486	30.18 89	12.253 255	25.75 158	24.416 281	35.64 17
3.5.1	20	33.987 253	63.15 83	32.740 217	29.29 53	12.508 220	27.33 134	24.697 242	35.47 29
März	2	34.240	63.98	32.957 178	28.70	12.728	-28.07 100	24.939 100	35.76 72
	12	34.443 152	65.23 161	33.135 139	28.57 = 13	12.911 146	29.76 83	25.138 156	36.48 108
Annil	22	34.595 102	66.84 188	33.274 102	28.70 41	13.057	30.59 58	25.294 112	37.56
April	Ι	34.697 <sub>54</sub>	68.72 205	33.376 66	29.11 64	9 13.167 77	31.17 35	25.406 72	38.93 160
	10	34.751 11	70.77 214	33.442 34	29.75 80	13.244 46	31.52	25.478 34	40.53 173
	20	34.762 =	72.91 212	33.476 6	30.55 93	13.290 19	31.67 =	25.512	42.26 180
Mai	30	34.735 62	75.03 204	33.482 -	31.48 100	13.309 6	31.65	25.512	44.06 178
Mai	20	34.673 90	77.07 187	33.463 41	32.48	13.303 27	31.48 <sub>29</sub> 31.19 <sub>28</sub>	25.482 56 25.426 78	45.84 169
		34.583 113	78.94 164	33.422 59	33.49 99	13.276 46	30	/"	47.53 155
T	30	34.470 131	80.58	33.363 74	34.48 93	13.230 63	30.81 46	25.348 97	49.08 136
Juni	9	34-339 144	01.94 102	33.289 87	35.4Î 84	13.167 78	30.35 51	25.251	50.44 112
	19	34.195	82.97 69	33.202 96	36.25 72	13.089 89	29.84 54	25.140 122	51.56 85
Juli	29	34.041 158	83.66	33.106 103	36.97 58	13.000 98	29.30 57 28.73 56	25.018	52.41 52.96 55
o un	9	33.883 157	83.97 7	33.003 106	37.55 43	12.902 103		24.889 134	
	19	33.726	83.90	32.897 107	37.98	12.799 106	28.17	24.755 133	53.22 7
Aug.	29 8	33.572	83.45 83 82.62	32.790 102	38.23 8	12.693 103	27.62 51	24.622 128	53.15 39
Aug.	18	33.428 <sub>130</sub> <sub>33.298</sub> <sub>100</sub>	QT 4T	32.688 93	38.31 <del>1</del> 3 38.18 <del>24</del>	12.590 97	27.11 45	24.494 119	52.76 71
	28	22 180	70.85	32.595 80	27 84 37	T2 400	26.29 37	24.375 104 24.271 82	52.05 103
Clamb		3	79.85 189	32.515 <sub>60</sub>	(A) (A)	03	24	٠3	134
Sept.	7	33.105 51	77.96 221	32.455 35	37.28 79	12.344	26.05 10	24.188 56	49.68 164
	17	33.054 14 33.040 <del>20</del>	75.75 250	$32.420 \frac{3}{4}$ $32.416 \frac{4}{22}$	36.49 104	$12.303$ $12.294$ $\frac{9}{28}$	25.95 <del>8</del> 26.03 20	24.132 <sub>23</sub> 24.109 <del>76</del>	48.04 <sub>193</sub> 46.11 <sub>220</sub>
Okt.	27 7	22 070	73.25 274	22 440	35.45 128	T2 222	26.32	24 725	42 OT
	17	33.148 78	70.51 294 67.57 309	32.523 119	34.17 <sub>153</sub> <sub>32.64 177</sub>	12.392 70	26.85 80	24.185 <sub>107</sub>	43.91 243 41.48 263
	27	33.278 182	64.48	32.642	30.87 198	12.507 160	27.65 106	24.292 156	38.85 278
Nov.	6	33.460	61.30 319 58.11	32.806 208	28.89 217	12.667 206	28.71 133	24.448 205	36.07 287
	16	33.695 284	58.11 319	33.014 250	20.72	12.873 248	30.04 158	24.653 252	33.20 290
	26	33.070	54.98 <sub>298</sub>	33.264 286	24.40 239	13.121 284	31.62 181	24,905 292	30.30 285
Dez.	6	34.306 327	52.00 275	33.550 314	22.01 242	13.405 313	33.43 198	25.197 325	27.45 272
	16	34.668	49.25	33.864	19.59 236	13.718 221	35.41 210	25.522 350	24-73 250
	26	35.053 398	46.82 203	34.197 333	17.23 223	14.049	37.51 215	25.072 362	22.23 221
100	36	35.451	44.79	34.539	15.00	14.389	39.66	26.234	20.02
Mittl.		33.063	75.07	32.254	37.00	12.153	23.38	24.051	46.65
sec δ,			-+0.798	1.020	+0.199		-0.092		+0.535
a,			-19.5	+3.0	-19.4	The second secon	-19.2		-19.1
<i>b</i> ,	<i>b'</i>	-0.05	+ 0.23	-0.01	+ 0.26	+0.01	+ 0.29	-0.03	+ 0.30

<sup>1)</sup> Die jährliche Parallaxe (o"121) ist bereits berücksichtigt.

15-2	te in				71-71			-11 144 1218	12 M = 24
Ta	ag	495) Y	Hydrae	496) i C	entauri	497) ζ Urs:	ae maj. pr	498) α	Virginis
100	1-374	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
19	47	13 <sup>h</sup> 16 <sup>m</sup>	-22°53'	13 <sup>h</sup> 17 <sup>m</sup>	-36° 25′	13 <sup>h</sup> 21 <sup>m</sup>	+55°11′	13 <sup>h</sup> 22 <sup>m</sup>	-10°52'
Jan.	I	0.767 357	21.41 198	35.076	43.99	46.698	53.57	22.537 340	59.74 208
	II	1.124	23.39 212	35.469 393 35.469 384	43.99 177 45.76 206	47.193 497	51.83	22.877 335	61.82 208
	21	1 -4/3 222	25.51 220	35.853 365	47.82	47.690 497	LEO DX		63.90 204
	31	1.005 206	27.71	30.218 226	50.09	48.172	$50.16 \frac{5^2}{11}$	22 522	65.94 192
Febr.	10	2.111 274	29.92 217	36.554 302	52.52 252	48.625 453	50.27 71	23.828 267	67.86
	-				and the second		1		
März	20	2.385 238	32.09 208	36.856 262	55.04 254	49.035 357	50.98 127	24.095 234	69.631; 7
Maiz	2 12	2.623 201	34.17 195	37.118 221	57.58 251	49.392 295	52.25 177	24.329 198	71.20 136
	22	2.824 163	36.12 178	37-339 179	60.09 244	49.687 229	54.02	24.527 162	72.56
April	I	2.987 126	37.90 160	37.518	62.53 231	49.916	56.19 247	24.689 128	73.69 90
Apin		3.113 91	39.50 141	37.657 99	64.84 216	50.078 94	58.66 247	24.817 94	74-59 68
	II	3.204 59	40.91 120	37.756 62	67.00 198	50.172 30	61.32 274	24.911 63	75.27 48
	20	3.263 29	42.11	37.818 27	68.98	1350.202 30	04.00	1 2/1.07/1	75.75 30
	30	3.292 2	43.12 80	37.845 -5	70.75	50.172 84	00.77 258	25.008 34	76.05 13
Mai	IO	3.294 =	43.92 60	37.840 35	72.29	50.088	69.35 236	25.017 = 14	76.18 = 3
	20	3.271 46	44.52 40	37.805 61	73.59 103	49.957 172	71.71 205	25.003 36	76.17 14
	30	2 225		05 544	74.62	and the second s		1 4 5 C C C C C C C C C C C C C C C C C C	P. 181-11 C. 180
Juni	9	3.225 66	44.92 21	37.744 87	75	49.785 205	73.76	24.967 55	76.03 25
· ·	19	3.159 84	45.13	37.657 108	75.37 47 75.84 17	49.580 231	75.46 128	24.912 72	75.78 35
	29	3.075 99 2.976 111	45.14 <del>18</del> 44.96 <sub>26</sub>	37-549 128	76.01 17	49.349 250	76.74 83	24.840 86	75.43 42
Juli	9	2.865	44.60 36	37.421 142	75.89	49.099 262	77.57 36	24.754 98	75.01 49
	9.		53	37-279 153	13.09 42	48.837 267	77.93 =	24.656 107	74.52 55
	19	2.744 124	44.07 68	37.126 159	75.47 69	48.570 265	77.81 60	24.549 113	73.97 58
	29	2.020	43-39 81	30.967	74.78 95	48.305	77.21 .08	24.436	73.39 59
Aug.	8	2.490	42.58 91	30.810	73.83	48.049	76.13	24.324 107	72.80 59
	18	2.379	41.67 98	36.661	72.66	47.810	1 /4.50	24.217 97	72.21
	28	2.274 84	40.69 100	36.527 109	71.30 148	47.595 182	72.61 237	24.120 79	71.66 48
Sept.	7	2.190 6	39.69	36.418	69.82	47.413 142	70.24 274	24.041	71.18
0541	17	2 724	28 70 9/	26 247	68.27	47.271	67.50 305	22 086 55	70.81 37
	27	0.770	27.82	26 205 =	66.72 146	47 T78 93	64.45 331	22.062	70.58 43
Okt.	7	2 7 20	37.00 /4	26 276	65.26	17 TAO =			70 F0 -
	17	2.194 114	26.54 55	26 280	63.95 108	17 161 24	57.62 365	24 02T	70 7T
	1		9			92	100000000000000000000000000000000000000	24.031 101	43
NI	27	2.308 164	36.25	36.501 179	62.87	47.256 162	53.97 370	24.132	71.14 70
Nov.	6	2.472	36.25 33	30.080	62.08	47.418 233	50.27	24.281	71.84 98
	16	2.080 260	30.58 67	30.914 285	01.05 3	47.051	40.00	24.478	72.82 98
Dez.	26	2.940	37.25	37.199 329	01.02 38	41.93- 262	10 0 322	24./10 270	74.09 152
Dez.	6	3.245 329	38.26	37.528 364	62.00 80	48.314 417	39.72 300	24.997 309	75.61 175
	16	3.574 350	39.60 162	37.892 385	62.80 121	48.731 459	36.72 259	25.306 221	77.36 193
	26	3.924 360	41.22 187	38.277 397	64.01 158		34.13 210	25.637 331 25.637 342	79.29 204
	36	4.284	43.09	38.674	65.59	49.676	32.03	25.979	81.33
16.4	-			The state of the s	100	NED TO SOL	1000	12 1911-1	GAT DECK I
Mittl.		2.103	32.94	36.558	59.76	47.671	65.94	23.827	67.01
sec δ,		CALL STREET, SQUARE, SALES	-0.422	1.243	-o.738		+1.439		0.192
a,			-19.0		-18.9		-18.8		<b>—18.8</b>
Ъ,	0	+0.03	+ 0.33	+0.05	+ 0.33	-0.09	+ 0.35	+0.01	+ 0.35

14	Tag 499) Grb 2001 U Min			500) 69 H. 1	Ursae mai.	501) ζ Virginis		502) 17 H. Can. ven.	
Ta	g	AR.	Deki	AR.	Dekl	AR.	Dekl.	AR.	Dekl.
194	47	13 <sup>h</sup> 24 <sup>m</sup>	+72° 39′	13 <sup>h</sup> 26 <sup>m</sup>	+60° 12'	13 <sup>h</sup> 31 <sup>m</sup>	-0° 19′	13 <sup>h</sup> 32 <sup>m</sup>	+37° 26′
192	+/		1 12 39	THE SECOND RES	100 12	THE PERSON NAMED IN	Marie S. S.		137 20
Jan.	I	45.88 83	44.19	29.52	55.32 171	58.107	28.95 213	24.762 386	63.57 209
	II	46.71 86	42.76 78	30.07 22	53.61 109	50.441 221	31.08 204	25.140 287	61.48 162
	21	47.57 0-	41.98	30.62	52.52 44	58.772 333	33.12	25.535 <sub>376</sub>	59.86
	31	48.40	$41.87 \frac{1}{56}$	31.16	52.08 -	59.090	34.99 ,64	25.0II	58.771 55
Febr.	10	-49.19 72	42.43 118	31.67 46	52.28 82	59.387 270	36.63	26.264 353	58.22
	20	49.91 63	43.61	32.13 41	53.10	59.657 238	38.03 111	26.587	58.22
März	2.	50.54	45.36 223	32.54 22	54.50	59.895	39.14 82	26.871	58.74 tot
	12	51.05 30	47.59 261	32.87 26	56.40 230	60.000	39.96	27.111	59.75
	22	51.44 26	50.20 288	33.13 19	58.70 26	60.267	40.49 27	27.300	61.17
April	I	51.70 12	53.08 302	33.32 10	61.31 279	60.401 100	40.76	27.453 101	62.92 200
	II	51.82	56.10	33.42 3	64.10 287	60.501	40.80	27.554 58	64.92 216
	20	51.81	59.14 205	33.45 4	00.97	60.571 41	40.63	27.612	67.08 221
	30	51.68	62.09 274	33.41 10	09.79 -60	60.612	40.29 46	27.629 -	69.29 219
Mai	10	51.44 34	64.83 245	33.31 <sub>16</sub>	72.47	60.626	39.83 56	27.610 52	71.48 207
	20	51.10 43	67.28 208	33.15 21	74.91 212	60.617 30	39.27 61	27.558 81	73.55 189
	30	50.67 50.18	69.36 163	32.94 25	77.03 174	60.587 50	38.66 65	27.477 106	75.44 165
Juni	9		70.99	32.69	78.77	60.537 68	38.01 65	27.371 726	77.09 126
	19	49.63	72.14 63	32.40 30	80.08 84	60.469 83	37.36 63	27.245	78.45 102
	29	49.04 6	72.77 10		80.92 34	60.386	36.73 60	27.102	79.47 66
Juli	9	48.43 61	72.87 -	$31.78 \frac{3^2}{33}$	$81.26 \frac{31}{16}$	60.291	36.13 55	26.946 163	80.13 29
	19	47.82 61	72.42 98	31.45 <sub>32</sub>	81.10 67	60.187	35.58 47	26.783 166	80.42
	29	47.2I a	71.44	31.13 ,,	80.43	00.070	35.11 39	26.617	80.31
Aug.	8	40.03	09.95	30.81 29	79.27 164	59.964 108	34.72 29	26.452	79.81
	18	40.09	67.98	30.52	77.03 208	59.856	34.43	20.295	78.91
	28	45.60 49	65.55 283	30.26 23	75.55 249	59.756 84	34.28	26.151 123	77.64 164
Sept.	- 7	45.18	62.72 318	30.03 19	73.06 286	59.672 61	34.27 16	26.028 96	76.00 199
	17	44.84	59.54 347	29.84 13	70.20 318	59.611 33	34.43 36	25.932 62	74.01 231
	27	44.59 14	56.07 370	29.71 6	101.02 244	59.578	34.79 57	25.870 21	71.70 261
Okt.	7	44.45	52.37 286	29.65 -	03.58 264	59.580	35.36 81	25.849 26	69.09
	17	$44.41 \frac{4}{9}$	48.51 393	29.66 8	59.94 376	59.624 88	36.17 107	25.875 77	66.24 306
ELEVIA.	27	44.50 21	44.58 392	29:74 16	56.18 380 52.38 375 48.63 361	59.712	37.24 131	25.952 131	63.18 320
Nov.	6	44.71 45.05 46	40.66 392	29.90 24	52.38 375	59.846 181	38.55	26.083 -00	59.98 227
	16	45.05 46	40.66 380 36.86 360	30.14	48.63 361	60.027 226	40.10	26.269	50.71 227
1518	26	1 AF ET		30.14 30.46 39		00.253 265	41.00	1 20.500 00	53.44 318
Dez.	6	46.08 68	29.96 289	30.46 30.85 39 45	$\begin{vmatrix} 45.62 & 337 \\ 41.65 & 303 \end{vmatrix}$	00.518 297	43.84 209	26.796 328	50.26 299
	16	46.76	27.07 240	31.30	38.62	60.815 320	45.93 217	27.124 360	47.27 273
	26	4/.52 8.	24.07 182	1 2T XO	30.03 208	01.135 224	48.10	27.484 280	44.54 236
-	36	48.33	22.84	32.34 54	33.95	61.469 334	50.28	27.864	42.18
	Ort	46.77	58.85	30.51	68.54	59.389	32.32	25.880	72.08
sec δ.		3.356	+3.204	2.013	+1.747	1.000	-0.006	1.260	+0.766
	a'	+1.5	-18.7	+2.2	-18.6	+3.1	-18.5	+2.7 *	-18.4
<i>b</i> ,	<i>b'</i>	-o.19	+ 0.36	-o.11	+ 0.37	0,00	+ 0.39	-0.05	+ 0.39

	27 1 1	504) ε C	entauri	507) τ B	Bootis	509) η Urs	ae mai.	510) 89 V	/irginis
Ta	g -	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
194	17	13 <sup>h</sup> 36 <sup>m</sup>	-53° 11′	13 <sup>h</sup> 44 <sup>m</sup>	+17° 42′	13 <sup>h</sup> 45 <sup>m</sup>	+49° 34′	13 <sup>h</sup> 46 <sup>m</sup>	-17° 52'
Jan.	1	28.935 495	31.69 122	43.292 339	69.79 223	26.047	26.66 209	57.600	6.48 188
Jan.	II	29.430 488		43.631 340	67.56	20.400	24.57 <sub>153</sub>	57.690 58.037 347	8.36 198
	21		32.91 <sub>166</sub> 34.57 <sub>204</sub>		65.61 160	26.932 438	2204	58.383 334	10.34 201
	31	20.388	36.61 236	44 202	64.01 120	27.370 438	22 11 93		12.35 198
Febr.	10	20.828	38.97 262	44.614 287	62.81 78	27.788 418 27.788 386	$21.79 \frac{3^2}{30}$	59.031 289	14.33 190
		400	THE PARTY OF THE P		76	300	30	209	
	20	31.228	41.59 280	44.901 255	62.03 36	28.174 343	22.09 87	59.320 258	16.23 178
März	2	31.583 305	44.39 292	45.156 220	61.67 -	20.517 204	22.96	59.578 225	18.01 162
	12	31.888 254	47·31 <sub>298</sub>	45.376 184	61.72	28.811	24.36 185	59.803 190	19.63
A	22	32.142 201	50.29 297	45.560 146	62.14 75	29.050 182	26.21 221	59.993 156	21.07 125
April	Ι	32-343 150	53.26 291	45.706 111	62.89 75	29.232 124	28.42 245	60.149 122	22.32 107
	II	32.493 99	56.17 278	45.817 77	63.91	29.356 68	30.87 261	60,271	23.39 87
	20	32.592 50	58.95 263	1845.894 //	65.12 136	29.424 16	33.48 265	60.362 62	24.26
ET GOLD	30	32.642	61.58	45.939 15	00.40	29.440 = 33	30.13 258	60.424 33	24.96 52
Mai	IO	32.645 -	64.00	45.954 =	67.90	29.407 77	38.71	60.457	25.48 37
	20	32.603 84	66.17 188	45.942 35	69.33	29.330 116	41.15 220	60.464 =	25.85 21
	30	32.519 123	68.05	45.907	70.71 128	29.214 149	43.35 189	60.447	26.06 6
Juni	9	32.396 159	69.60 119	45.850	71.99 114	20 065	45.24	60 406	26 T2 -
	19	20 227	50 50	15772	72.T2	28.888	1 4h 7X	60.344 82	26.05
	29	32.046 216	77 60	45.680 93	74.10	28.687 201	17 OT 113	60.262	25.86 19
Juli	9	31.830 235	72.01 41	45.572 118	74.87 54	28.470 228	48.60 69	60.164 98	25.54 43
				3 15 5 5 5 5	34	220	48.84	60.053	S ( ) ( )
	19	31.595 247	72.01 41	45.454 125	75.41 30	28.242 234 28.008	18 60	60.053	25.II 53 24.58 61
Aug.	29 8	31.348 249	71.60 80	45.329 127	75.71 5	232		59.932 <sub>126</sub> 59.806 <sub>125</sub>	22.07
Aug.	18	31.099 240 30.859 221	69.62	45.202	75.76 =	27.553 207	47.94 115	59.681 116	22 20
	28	20 628		45.077 117 44.960 102	75.55 48 75.07 76		46.79 158 45.21 200	59.565 102	22 50
	20	30.030 190	68.10 178	The second second		-03		Sudden Fred	/0
Sept.	7	30.448 148	66.32 200	44.858 80	74.31 104	27.163 152	43.21 238	59.463 80	21.89 65
	17	30.300	64.32	44.778 53	73.27	27.011	40.83	59-383 49	21.24 57
	27	30.205 31	62.18	44.725 18	71.968	26.899 64	30.10	59.334 11	20.67 44
Okt.	7	30.174 -	60.01	44.707 =	70.38 187	20.035	35.06 329	59.323 =	20.23 26
	17	30.214 115	57.89 198	44.730 68	68.53 209		31.77 347	59.354 79	19.97 4
	27	30.329 191	55.91 173	44.798 116	66.44 231	26.876	28.30 360	59.433 130	19.93 23
Nov.	6	30.520	54.18 140	44.914 165	04.13	26.990	24.70 364	23.2.2 180	20.16
	16	30.786	52.78 100	45.079 212	61.64 260	27.170	21.06 258	59.743 227	20.67 80
	26	30.786 335 31.121 305		45.291 254	59.04 267	27.414 204	17.48	50.070	21.47 110
Dez.	6	31.516 395	51.23 6	45.545 290	56.37 265	355	24.70 364 21.06 358 17.48 343 14.05 318	60.240	22.57 137
	16	31.958 477	51.17 44	45.835 318	53-72 257	28.073 397	10.87 284	60.544 331	23.94 161
	26	32.435 495	51.61 93	40.153 226	51.15 230	20.4/0 428	8.03 241	00.075 346	25.55 179
8, 33	36	32.930 495	52.54	46.489	48.76	28.898	5.62	61.221	27.34
Mitt	l. Ort	30.920	51.23	44.555	72.69	27.219	38.05	59.188	15.46
	8, tg 8	1.669	-1.337	1.050	+0.320	1.542	+1.174	1.051	-0.322
	, a'	+3.8	-18.3	+2.9	-18.o	+2.4	-18.o	+3.3	-17.9
· b.	, b'	+0.08	+ 0.41	-o.o2	+ 0.44	-0.07	+ 0.44	+0.02	+ 0.45

Tag	2									
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11	194	17	13 <sup>h</sup> 52 <sup>m</sup>	+18° 39′	13 <sup>h</sup> 52 <sup>m</sup>	-47° 1'	13 <sup>h</sup> 58 <sup>m</sup>	+27° 38′	13 <sup>h</sup> 58 <sup>m</sup>	- 13 1- 125
11	Jan.	ı	8.312	42.12	11.200	24.14	44.942	24.47	55.361	62.82
Febr.   10   9.643 aga   35.05   57   7   33.03 aga   37.00   52   34.28   35   34.00   34   35   37.40   36   36.06   21   33.03   37   31.00   240   46.331   31.0   7.50   35   56.654   284   55.20   33   33.03   37   33.04   25   46.934   31.0   31.		-		39.85	11.746	25.33	45.292 350	22.15	55.691	60.67
Febr. 10 9.643 292 35.95 77 13.033 37.0 469  Mārv 2 10.10 27 33.93 7 13.040 37 13.040		21	0.994 000		12.192	20.90	45.648	20.21	56.022	58.65
No.   No.		31	9.321 216	26 26	12.624	28.81	43.77	18.71	r6 216 324	·56.81 164
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Febr.	10	9.643	25.05	13.033	31.00	46.331 333	T7 60	56.654 284	FF 20
12	17505	-		0					and the same of th	
$ \begin{array}{c} 12 \\ 22 \\ 10.613 \\ 154 \\ 157$	März	1925	9.935 261	33	13.410 339	33.40 255	46.041 279	- ( T	50.936 257	53.07 103
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1/12/12/	7000	10.190 227		13.749 <sub>296</sub>	35.95 265	40.920 244		57.195 225	
April I 10.707   18   35.24   107   14.504   163   43.93   259   47.536   127   19.70   152   57.773   127   51.57   11.603   11.001   20   11.041   7   44.90   44   44.806   34   44.806   34   44.90   44   44.806   34   44.90   44   44.806   34   47.755   34.409   44   44.806   34   47.807   20   10.675   18   47.70   55   14.408   14.806   34   47.807   20   10.675   18   47.70   55   14.408   14.806   34   47.807   20   10.675   18   47.70   55   14.408   14.806   34   47.807   20   10.675   18   47.70   55   14.408   14.806   34   47.807   20   10.675   18   48.806   34   34.806   34   34.806   34   34.806   34   34.806   34   34.806   34   34.806   34   34.806   34   34.806   34.806   34.		20.00	10.423 190		14.307	4T 27	47.104 206	T8.46	57.613	ST 70
Trans    T	April		10.767		14.504	43.03	47.536	10.70	57.773	ET.57 -
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$							AND THE RESERVE OF THE PARTY OF	152	37-773 127	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		4 2 1 1 10	10.885 83	36.31	14.667	46.52 248	90	21.22	90	
Mai 10		- 100	10.968	37.58	14.786	49.00	47.753 54	22.96 186		52.01
30	35			38.99 148		51.33 214		24.82	58.063 39	0.0
Juni 9 10.949 75 45.91 100 14.758 113 14.847 79 57.07 139 58.46 48 32.03 142 58.072 55 55.36 75 100 10.749 75 45.91 100 14.655 113 59.54 75 47.521 123 34.62 89 57.944 89 56.82 65 77.94 119 10.675 118 47.07 55 14.511 170 60.29 40 47.398 136 35.51 58 57.855 103 57.47 57 119 10.557 127 48.55 31 14.511 170 60.29 40 47.398 136 35.51 58 57.855 103 57.47 57 119 10.430 131 48.56 4 13.947 211 121 28 10.171 121 28 10.171 121 28 10.171 121 28 10.075 127 47.86 79 13.332 172 57.46 154 12.82 17 9.857 59 45.99 136 13.528 170 9.857 59 45.99 136 12.995 17 9.798 24 44.63 164 12.296 41 12.885 20 50.47 184 16.333 48 12.62 13 13.370 288 18.09 17 9.799 62 41.09 215 12.905 89 48.63 17 9.799 62 41.09 215 12.905 89 48.63 170 16.121 266 34.03 266 13.370 288 48.63 170 16.121 266 34.03 266 13.370 288 48.63 170 16.121 266 34.03 266 13.370 288 48.63 170 16.121 266 34.03 266 13.370 288 48.63 170 16.121 266 34.03 266 13.370 288 48.63 170 16.121 266 34.03 266 13.370 288 48.63 170 16.121 266 34.03 266 13.370 288 48.63 170 16.121 266 34.03 266 13.370 288 48.63 170 16.121 266 34.03 266 13.370 288 48.63 170 16.121 266 34.03 266 13.370 288 48.28 28 11.05.57 287 28.05 270 16.577 287 28.05 270 14.00 389 43.06 25 11.50 30 15.75 287 28.05 270 16.57 287 28.05 270 14.00 389 43.06 25 11.50 30 15.75 28.50 29.91 27.20 45.55 27.	Mai		/	40.47	14.890 5	53.47 193		20.73 189		
Juni 9 10.949 75 44.72 119 14.758 179 58.46 1.88 170.875 14.758 179 10.874 92 45.91 100 14.655 144 59.54 75 14.511 170 60.69 4 47.52 119 10.675 118 47.70 55 14.341 190 60.69 4 47.398 133 35.51 58 57.855 103 57.47 57 190 10.675 118 48.56 4 14.394 119 60.41 67 18.8 10.171 121 48.37 51 13.3947 211 58.82 18 10.171 121 48.37 51 13.332 172 57.40 154 46.681 127 35.10 110 57.285 102 59.20 7 7 199.857 59 44.63 164 179 9.857 59 44.63 164 179 9.790 62 41.09 215 12.885 20 50.47 184 46.332 17 9.790 62 41.09 215 12.885 20 50.47 184 46.332 17 9.790 62 41.09 215 12.885 20 50.47 184 46.332 21 10.577 287 28.6 52.70 18.3 13.70 288 13.147 22.3 45.45 117 9.790 62 10.327 250 10.577 287 28.6 52.70 14.00 389 11.515 30.84 24.88 34 43.66 36 11.327 250 10.577 287 28.6 52.70 14.00 389 11.515 30.3 11.515 30.84 24.45 36.35 27 11.50 57.585 21.3 13.528 16 10.327 250 10.577 287 28.6 52.70 14.00 389 11.515 30.3 11.515 30.3 11.515 30.3 11.526 44.816 44.88 24.45 36.3 24.8 11.515 30.3 36.57 254 14.816 44.88 24.88 24.89 11.515 30.3 2.6 2.6 33.34 24.3 11.515 30.4 24.45 36.3 25.4 17.5 30.4 24.45 36.3 25.4 17.5 30.4 24.45 36.3 25.4 17.5 30.4 24.8 25.4 34.6 40 15.5 17.5 17.5 17.5 24.4 36.3 25.4 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	A CONTRACTOR	20	11.034 31	41.90 143	14.091 44	55.40 167	47.817 39	28.02 178	50.115 10	53.04 75
Juni 9 10.949 75 44.72 119 14.758 179 58.46 188 32.03 143 58.07 25 55.36 75 10.874 92 10.675 118 47.70 55 14.511 170 60.29 47.398 123 34.62 89 57.855 103 55.47 57 56.81 179 56.82 65 57.47 57 19 10.675 118 48.66 $\frac{1}{2}$ 48.56 $\frac{1}{2}$ 48.56 $\frac{1}{2}$ 48.57 51 13.3947 211 60.41 67 46.681 122 28 10.050 107 47.86 79 13.332 172 57.46 154 46.681 127 35.10 110 57.285 102 59.20 $\frac{1}{7}$ 58.82 $\frac{1}{2}$ 38.94 $\frac{1}{2}$ 39.857 59 44.63 $\frac{1}{2}$ 48.57 51 $\frac{1}{2}$ 39.857 59 $\frac{1}{2}$ 48.58 $\frac{1}{2}$ 39.857 59 $\frac{1}{2}$ 48.59 $\frac{1}{2}$ 48.50		30	11.003	43.39	14.847	57.07	47.778 64	30.40	58.105 ,,	54.59
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Juni	9	10.949	44.72	14.768	58.46	47.714 86	32.03	58.072	55.30
Juli 9 10.675 118 47.70 79 14.511 170 60.29 40 47.398 136 35.51 58 57.855 103 57.47 57 57 10.675 118 47.70 $\frac{1}{5}$ 14.341 $\frac{1}{1}$ 170 $\frac{1}{5}$ 60.69 $\frac{4}{4}$ 47.398 136 35.51 $\frac{1}{5}$ 89 57.855 103 57.47 57 57 10.450 131 $\frac{1}{4}$ 84.56 $\frac{4}{4}$ 13.947 211 60.41 67 47.117 148 36.35 $\frac{1}{7}$ 75.755 114, 58.84 47 13.736 $\frac{1}{2}$ 204 60.41 67 47.117 148 36.28 57.519 119 58.51 37 58.51 128 10.050 107 47.86 $\frac{1}{7}$ 13.332 172 57.46 154 46.681 $\frac{1}{1}$ 35.76 $\frac{1}{2}$ 89 46.821 $\frac{1}{4}$ 35.86 $\frac{1}{7}$ 35.81 13.528 $\frac{1}{7}$ 36.87 $\frac{1}{7}$ 36.81 13.00 139 55.92 13 46.54 105 37.00 110 57.285 102 $\frac{1}{7}$ 59.20 $\frac{1}{7}$ 58.87 $\frac{1}{7}$ 9.943 86 47.07 108 13.160 139 55.92 139 54.19 184 46.337 $\frac{1}{7}$ 9.857 59 45.99 136 13.021 95 54.19 184 46.337 $\frac{1}{7}$ 9.774 $\frac{1}{16}$ 42.99 190 12.285 $\frac{1}{7}$ 9.790 $\frac{1}{6}$ 41.09 215 12.905 87 48.63 170 46.333 $\frac{1}{7}$ 87.183 83 57.020 $\frac{1}{7}$ 57.39 179 9.790 $\frac{1}{6}$ 41.09 215 12.905 87 48.63 170 46.333 $\frac{1}{7}$ 48.63 170 48		19	10.874	45.91 100	14.655	CO C1	17 628	33.45	1 58.017	56.11
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		29	10.782	46.0T	14.511	1 60 20	47.521	24 60	57.944 80	1 56 82
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Juli	9	10.675 118	17.70	14.341 190	60 60	47.398 136	OF FT	57.855 103	F7 47
Aug. 8   10.430   131   48.56   4   13.947   211   59.74   69   46.969   148   36.28   77.519   119   58.88   23   28   10.171   12   48.37   51   13.528   196   58.75   129   46.821   140   35.86   76   57.420   115   59.21   9   7   128   10.050   127   47.86   79   13.160   139   55.92   173   46.449   76   32.56   17   17   9.857   59   45.99   136   12.926   12.926   12.926   17   17   9.790   62   41.09   215   12.905   87   48.63   17   46.332   18   28.75   233   34.00   16   10.121   2.66   10.327   259   2		TO	T. T. T. T. T. T. T. T. T. T. T. T. T. T	18.25		-		26.00	NAME OF BRIDE	
Aug. 8   10.299   128   48.60   $\frac{2}{23}$   13.736   268   59.74   99   46.969   148   36.28   42.75   57.40   115   57.285   102   59.20   $\frac{7}{7}$   Sept. 7   9.943   86   47.07   108   13.160   139   55.92   173   46.554   105   32.56   175   35.10   110   57.285   102   59.20   $\frac{7}{7}$   Sept. 7   9.798   24   44.63   164   12.926   41   52.35   188   46.373   41   42.99   190   12.905   87   48.63   170   46.480   150			10.430	48.56	13.047	60 AT	47.117	26.25 -	57.638	58.5T 4/
Sept. 7 9.943 86 47.07 108 13.160 139 55.92 173 46.554 105 57.285 102 59.20 $\frac{9}{7}$ Sept. 7 9.943 86 47.07 108 13.160 139 55.92 173 46.554 105 32.56 175 57.005 57 58.87 46 17 9.795 $\frac{9}{10}$ 44.63 164 12.996 $\frac{41}{10}$ 12.885 $\frac{1}{20}$ 50.47 184 46.332 $\frac{1}{10}$ 28.75 233 57.00 $\frac{1}{10}$ 57.00 57 58.87 46 68.317 9.799 $\frac{1}{10}$ 27.999 $\frac{1}{10}$ 21.2885 $\frac{1}{20}$ 50.47 184 46.332 $\frac{1}{10}$ 28.75 233 57.00 $\frac{1}{10}$ 57.00 57 58.87 46 68.317 $\frac{1}{10}$ 9.790 $\frac{1}{10}$ 41.09 215 12.995 87 48.63 170 46.333 $\frac{1}{48}$ 46.381 $\frac{1}{20}$ 9.704 $\frac{1}{10}$ 69.962 159 36.57 254 13.147, 223 45.45 117 46.480 150 21.05 293 18.12 20.05	Aug.		10.200	18.60	13.736	50.74	46.969	26.28	57.519	58.88
Sept. 7 9.943 86 47.07 108 13.160 139 55.92 173 46.554 105 34.00 144 57.183 83 59.13 26 17 9.857 59 45.99 136 12.926 41 12.92		18	10.171	18.27	13.528	c8 75 99	46.821	1 O.C T	FM 400	FO.TT
Sept. 7   9.943   86   47.07   108   13.160   139   55.92   173   46.554   105   32.56   175   57.100   57   58.87   46.449   76   32.56   175   30.81   26.58   175   30.81   26.58   175   30.81   26.58   175   30.81   26.58   175   30.81   26.58   175   27   27   27   27   27   27   27		28	10.050	17.86	13.332	57.46	46.681	25 10	57.285	9
0kt. 7 9.857 59 44.63 164 12.926 41.02 12.926 41 12.926 41.02 12.926 41.02 12.926 41.02 12.926 41.02 12.926 41.02 12.926 41.02 12.926 41.02 12.926 41.02 12.926 41.02 12.926 41.02 12.926 41.02 12.926 41.02 12.926 41.02 12.926 41.02 12.926 41.02 12.926 41.02 12.926 41.02 12.026 41.02 12.026 41.02 12.026 41.02 12.026 41.02 12.02	C		The state of the state of	19	AND REAL PROPERTY OF THE PARTY	10.7	I I I I I I I I I I I I I I I I I I I	Parity same	0-	
Okt. 7 9.798 $\frac{24}{16}$ 44.03 $\frac{164}{42.99}$ 16 $\frac{12.926}{19.905}$ 41 $\frac{12.926}{21.995}$ 42 $\frac{11.995}{87}$ 48.63 $\frac{11.995}{19.905}$ 87 $\frac{11.995}{87}$ 48.63 $\frac{11.995}{19.905}$ 87 $\frac{11.995}{87}$ 48.63 $\frac{11.995}{19.905}$ 87 $\frac{11.995}{87}$ 48.63 $\frac{11.995}{19.905}$ 49.902 $\frac{11.995}{19.905}$ 36.57 $\frac{11.995}{25.905}$ 31.370 $\frac{11.995}{25.905}$ 31.300 $\frac{11.995}{25.905}$ 31.300 $\frac{11.995}{25.905}$ 31.300 $\frac{11.995}{25.905}$ 31.400 $\frac{11.995}{25.905}$	Sept.			47.07 108	13.100	55.92 173	40.554 105	34.00		
Okt. 7   9.774 $\overline{16}$   42.99 $\overline{190}$   12.885 $\overline{20}$   50.47 $\overline{184}$   46.332 $\overline{1}$   28.75 $\overline{233}$   57.020 $\overline{16}$   57.73 $\overline{91}$   66.82 $\overline{115}$   12.995 $\overline{87}$   48.63 $\overline{170}$   46.333 $\overline{48}$   48.63 $\overline{170}$   46.333 $\overline{48}$   23.84 $\overline{279}$   57.096 $\overline{160}$   57.73 $\overline{91}$   56.82 $\overline{115}$   15.11 $\overline{15}$   16.121 $\overline{15}$   36.57 $\overline{254}$   34.03 $\overline{266}$   33.47 $\overline{223}$   34.03 $\overline{266}$   34.03 $\overline{266}$   34.03 $\overline{266}$   34.03 $\overline{266}$   34.03 $\overline{288}$   34.06 $\overline{5}$   34.06 $\overline{5}$   36.57 $\overline{287}$   36.55 $\overline{270}$   37.37 $\overline{272}$   38.658 $\overline{345}$   34.06 $\overline{5}$   34.06 $\overline{5}$   36.57 $\overline{287}$   37.562 $\overline{244}$   34.06 $\overline{5}$   36.57 $\overline{287}$   37.562 $\overline{244}$			45.99 136		54.19 184	46.449 76	32.50 175		FR 4T	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Okt		0774	44.03 164	12.920 41	52.35 188	46.373 41	30.01 206	F7 020 -	00
Nov. $\begin{array}{cccccccccccccccccccccccccccccccccccc$	One.		0.700	41.00	70.005	18.63	16 222	26.42 233	57 026	1 6 82
Nov. 6   9.962   159   36.57   254   13.147   223   45.45   117   46.480   150   21.05   293   57.204   156   52.63   184   206   10.327   250   28.65   270   14.003   389   43.06   40.06   40.06   45.47   15.262   44.54   40.06   47.073   41.29   44.54   40.06   47.073   41.29   40.24   40.2		36	02	A COLUMN TO SERVICE AND A SERV	- 1				100	***
Nov. 6   9.902   159   30.57   254   13.147   223   45.45   117   40.486   150   21.05   293   57.204   156   52.63   184   264   10.327   250   10.577   287   28.65   270   14.003   389   43.66   $\frac{4}{5}$	- FI TO L		9.852 110	38.94 237	12.992 155	46.93 148	46.381	23.84 279		55.67 140
Dez. 6 $\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Nov.		9.962	30.57 254	13.147	45.45	46.480	21.05	57.204 156	54.27 164
Dez. 6 $\begin{array}{c ccccccccccccccccccccccccccccccccccc$			10.121 206	34.03 266	13.370 288	44.28 82	46.630 200	18.12	57.360 202	52.03 184
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Dog		10.327 250	31.37 272	13.058 345	43.40 40	40.830 248	1 -2.11 202	57.502	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Dez.	· ·		20.05 270	14.003 389	43.00	47.070 289	12.09 294	57.000 281	40.70 214
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		16	10.864 216	25.95 261	14.392	43.11	47.367	9.15 278	58.087 208	46.64
Mittl. Ort     9.606     45.47     13.278     41.54     46.246     30.53     56.783     60.77       sec $\delta$ , tg $\delta$ 1.055     +0.338     1.467     -1.073     1.129     +0.524     1.001     +0.031       a, a'     +2.9     -17.7     +3.7     -17.7     +2.7     -17.4     +3.1     -17.4       b, b'     -0.02     +0.47     +0.06     +0.47     -0.03     +0.50     0.00     +0.50			11.180 225	23.34 242	14.816	43.60	47.688	6.37 253	58.395 226	44.45 220
Mittl. Ort 9.606 45.47 13.278 41.54 46.246 30.53 56.783 60.77 sec $\delta$ , tg $\delta$ 1.055 +0.338 1.467 -1.073 1.129 +0.524 1.001 +0.031 +2.9 -17.7 +3.7 -17.7 +2.7 -17.4 +3.1 -17.4 b, $b'$ -0.02 +0.47 +0.06 +0.47 -0.03 +0.50		36	11.515	20.91	15.262	44.53	148.032	3.84	58.721	
sec $\delta$ , tg $\delta$ 1.055     +0.338     1.467     -1.073     1.129     +0.524     1.001     +0.031       a, a'     +2.9     -17.7     +3.7     -17.7     +2.7     -17.4     +3.1     -17.4       b, b'     -0.02     +0.47     +0.06     +0.47     -0.03     +0.50     0.00     +0.50	3.524.43	0-4		H 1984 8	0	70.25		2 Da 7852	-6 -0	(
$a, a'$ $\begin{vmatrix} +2.9 & -17.7 & +3.7 & -17.7 & +2.7 & -17.4 & +3.1 & -17.4 \\ b, b' & -0.02 & +0.47 & +0.06 & +0.47 & -0.03 & +0.50 & 0.00 & +0.50 \end{vmatrix}$						CONTRACTOR OF THE	Charles and the same			
$b, b'$ $\begin{vmatrix} -0.02 & +0.47 &   +0.06 & +0.47 &   -0.03 & +0.50 &   0.00 & +0.50 &   &   &   &   &   &   &   &   &   & $					CONTRACTOR OF THE PARTY OF THE		THE RESERVE THE PARTY OF THE PA	The second secon	SOUTH AND STREET	The Control of the Co
					- Charles Committee				The state of the state of the state of	
					Ash and the		0.03	0,30	0.00	0.50

Die jährliche Parallaxe (o"112) ist bereits berücksichtigt.
 Bei Stern 517) und 516) lies April 21.

m.		518) β (	lentauri	521) a I	raconis	520) & C	entauri	522) 12 d	Bootis
Та	6	AR.	Dekl	AR.	Dekl	AR.	Dekl	AR.	DekL
19	47	14 <sup>h</sup> o <sup>m</sup>	-60° 6′	14 <sup>h</sup> 2 <sup>m</sup>	+64° 37′	14 <sup>h</sup> 3 <sup>m</sup>	-36° 6′	14 <sup>h</sup> 7 <sup>m</sup>	+25°20'
	2-17		"0	8		10 20 10	Shorten all	The state of	- 11-11-1
Jan.	1	1.26	45.89 74	55·74 <sub>58</sub>	29.33 207	31.437 391	22.42	57.495 343	25.52 237
17.5	II	1.03 58	46.63 122	56.32 61	27.26	31.828 201	23.19 The	57.838	23.15
	21	2.41 56	47.85 167	56.93 61	25.81 81	32.219 382	25.44 189	58.187 349	21.14 159
Toba	31	2.97 54	49.52 207	57.54 60	25.00 24.86 <del>1</del> 4	32.601 363	27.33 206	58.533 332	19.55 113
Febr.	10	3·5 <sup>1</sup> 49	51.59 240	58.14 <sub>56</sub>	33	32.964 337	29.39 218	58.865 309	18.42 65
	20	4.00 45	53.99 266	58.70 <sub>50</sub>	25.39 115	33.301 306	31.57 224	59.174 281	17.77 16
März	2	4.45	56.65 287	59.20	26.54	33.007 200	33.81	59.455 247	17.61 -
	12	4.85 24	59.52	59.64 26	28.25 218	33.877 233	36.06	59.702	17.91
731 3	22	5.19 28	02.52	60.00	30.43 256	34.110 196	38.27 214	59.913 174	18.64
April	1	5.47 22	05.59 308	60.27 19	32.99 282	34.306 158	40.41 203	60.087 136	19.74 140
	11	5.69 15	68.67 303	60.46 10	35.81 296	34.464 122	42.44 191	60.223 100	21.14 163
	21	5.84	11.10 202	60.56	38.77	34.586 86	44.35	60.323 65	22.77
	30	<sup>22</sup> 5.94 4	74.62 206	60.57 7	41.77 201	<sup>23</sup> 34.672 <sub>52</sub>	40.10	60.388	24.54 184
Mai	10	5.98 -	77.38 256	60.50	44.68	34.724 18	47.08	60.420	20.38
	20	5.96 8	79.94 229	60.36 21	47-40 245	34.742 =	49.08 118	60.421 -	28.21 175
	30	5.88 13	82.23 199	60.15 27	49.85 210	34.729	50.26	60.394 52	29.96 161
Juni	9	5.75 18	84.22 163	59.88 32	51.95 169	24 684 45	ET 22	60.341	I OT ET
	19	5.57 22	85.85 125.	59.56 36	53.64 122	34.610 74	51.04	60.264 77	33.00 121
	29	5.35 26	87.10 84	59.20	54.86 73	34.510	52.4I 20	60.166	24.21
Juli	9	5.09 29	87.94 39	58.81 40	55.59 22	34.386	52.61 -6	60.050 130	35·I5 65
	το.		88.33 6		55.81		- 350	-5-	35.80
	19 29	4.80 31	88.27 <sub>fo</sub>	58.41 42	PP PT	34.242 <sub>158</sub> 34.084 <sub>167</sub>	52.55 32 52.23 58	59.920 59.780 147	26 TA 3T
Aug.	8	4.49 32	87 77	57.99 41 57.58 41	E4 60	33.917 168	FT. 65	59.633	26.16 -
	18	4.17 32 3.85 31	86.84 133	57.17 38	53.36 181	33.749 160	50.84 102	59.486	25 86
	28	3.54 27	85.51 169	56.79 34	51.55 227	33.589 145	49.82 118	59.344 129	35.23 63 35.23 97
Sept.		The Part Court is 15		18.4 ( ) ( ) ( ) ( ) ( )		A STATE OF THE PARTY OF THE PAR			24.06
bept.	7	3.27 22	83.82	56.45 30	49.28 268	33.444 119	48.64 130	59.215 110	34.26 129
	17	3.05 <sub>16</sub> 2.89 0	81.83 220	56.15 25	46.60 305	33·3 <sup>2</sup> 5 8 <sub>4</sub> 33.241 40	47·34 <sub>136</sub> 45·98 <sub>135</sub>	59.105 82 59.023 48	27 26
Okt.	27 7	200 9	79.63 233	55.90 17	43.55 336	22 20T	44.63 127	TO OHE TO	29.44 220
O Itel	17	2.79 -8	77·3° 237 74·93 230	55.73 10 55.63 2	40.19 362 36.57 379	22 272	12 26	r8 067 -	27.24 245
	619.383	Control of the second		A. 10 12 13	379	2412		39	
NT	27	2.87 18	72.63 213	55.61 8	32.78 389	33.279 126	42.25 90	59.006 89	24.79 267
Nov.	6	3.05 27	70.50	55.69 17	20.09	33.405 185	41.35 61	59.095 140	22.12 283
	16	3.32 35	68.65	55.86 27	24.99 280	33.590 242	40.74 29	59.235 190	19.29 293
Dez.	26 6	3.67 42	67.15 107	56.13 35	21.19 361	33.832 293	40.45 8	59.425 237	16.36 297
1002.	0	4.09 49	66.08 60	56.48 44	17.58 361	34.125 334	40.53 45	59.662 279	13.39 292
	16	4.58	65.48 9	56.92 51	14.26 292	34.459 367	40.98 82	59.941 312	10.47 278
	26	5.12 57	65.39 42	57.43 56	11.34 242	34.826 387	41.80 117	60.253 336	7.09 255
1000	36	5.69 57	65.81	57.99	8.92	35.213	42.97	60.589	5.14
Mittl	. Ort	3.81	65.78	57.09	43.13	33.282	36.42	58.858	31.01
	, tg δ	2.007	-1.740	2.334	+2.109	1.238	-0.729	1.106	+0.474
	a'	+4.2	-17.4	+1.6	-17.2	+3.6	-17.2	+2.7	-17.0
	b'	+0.10	+ 0.50	-0.12	+ 0.51	+0.04	+ 0.51	-0.03	+ 0.53

Та	.2	524) 4 Ur	sae min.	523) x \	Virginis	525) i V	irgin <b>i</b> s	526) α	Bootis
10/2		AR.	Dekl.	AR.	Dekl	AR.	Dekl.	AR.	Dekl.
194	47	14 <sup>h</sup> 8 <sup>m</sup>	+77° 47′	14 <sup>h</sup> 10 <sup>m</sup>	-10° 1′	14 <sup>h</sup> 13 <sup>m</sup>	-5° 44'	14 <sup>h</sup> 13 <sup>m</sup>	+19°27′
Jan.	I	59.49 105	32.59 191	2.282 2.616	34.93	12.348 329	50.26 201	13.141 331	23.4I <sub>241</sub>
	II	60.54	30.68	2.616 334	36.86	12.677 333	52.27 198	13.4/2	21.00
	21	61.66	29.41 60	2.052	38.79 -0-	13.010 333	54.25 188	13.809 337	18.89 175
	31	62.79 112	28.8T	2 282 33	40.68 178	13.337 313	56.13 173	14.14.1	17.14
Febr.		63.91 106	28.88 7	3.202 <sub>315</sub> 3.597 <sub>294</sub>	42.46	13.650 293	57.86 173	14.464 301	15.80 90
-									90
Männ	20	64.97 96	29.62	3.891 267	44.08	13.943 267	59.40	14.765 273	14.90 45
März	2	65.93 83	30.98	4.158 237	45.52 122	14.210 237	00.70 TOE	15.038 242	14.45 2
	12	66.76 69	32.89 238	4.395 206	46.74 99	14.447 206	61.75 79	15.280 208 15.488 172	14.43 39
April	22 I	67.45 51 67.96 22	35.27 273	4.601 174	47.73 76	14.653 175	62.54 54 63.08	15.466 173	14.02 75
erbin	•	33 .	38.00 296	4.775 142	48.49 56	14.828	32	15.661 173	15.57 104
	II	68.29 14	40.96 309	4.917 112	49.05 36	14.972 113	63.40 12	15.799 104	16.61 128
	21	68.43	44.05 208	25 5.029 83	49.41	15.085 84	63.52 -	15.903 71	17.89
	30	68.39 21	47.13 206	5.112	49.60	15.169 56	63.46	15.974 40	19.33
Mai	IO	68.18 38	50.09	5.167 28	49.64 -	15.225 29	63.26	16.014 10	20.85
	20	67.80 52	52.84 2/3	5.195 2	49-55 19	15.254 4	62.94 40	16.024 =	22.40
	30	67.28	55.28 206	5.197	10.26	15.258	62.54	16.008	PT CALL TO THE REAL PROPERTY OF THE PARTY OF
Juni	9	66.62	57.34 161	E TTE	40.08	T5.227	62.09 45	TC 065 43	23.91 <sub>141</sub> 25.32 <sub>126</sub>
	19	6-88 /3	58.95 112	F T20 T3	18.71	TETOA	61.60 49	TE 800	26 -8
	29	65.04	160 04	5 062	18.34	TE TOO	6r.00 51	TE 8T2	109
Juli	9	64.13	60.67 60	5.003 86 4.977 <sub>102</sub>	47.0T T3	15.045 100	60.58	15.708 121	27.67 87 28.54 63
	100	94	_	THE RESERVE TO SERVE THE PARTY OF THE PARTY	47	and the same	50		All the second
(1) 37-70	19	63.19 95	60.73 48	4.875 114	47.44 48	14.945 114	60.08	15.587 133	29.17 37
11	29	62.24 95	60.25 101	4.761 123	46.96 48	14.831 122	59.60 43	15.454	29.54 10
Aug.	8	61.29 92	59.24 152	4.638 126	46.48 47	14.709 124	59.17	15.315	29.64 -
	18	60.37 87	57.72 202	4.512	46.01 42	14.585 122	58.80 30	15.174	29.45 48
	28	59.50 79	55.70 246	4.390 111	45.59 37	14.463 111	58.50 19	15.037 137	28.97 77
Sept.	7	58.71	53.24 287	4.279 <sub>92</sub>	45.22	14.352	58.31	14.910 108	28.20
	17	58.0T	50.37	4.187 66	44.95	14.258 68	58.24 -	14.802 82	27.13 137
	27	57.42 46	47.15	4.121 32	44.80	14.190 35	58.32 26	14.720	25.76 165
Okt.	7	56.96 31	43.03 274	$4.089 \frac{3^2}{8}$	44.80 20	14.155 33	58.58 46	14.671 10	24.11
7	17	56.65 14	39.89 374	4.097 53	45.00 41	14.159 49	59.04 68	14.661 = 34	22.17 219
	0.77					77	1 -7 7 6 6	1	70.00
Nov.	27 6	56.51 3	36.01	4.150 102	45.41 66	14.208 96	59.72 93	14.695 83	19.98 242
1101.	16	56.54 <sub>21</sub> 56.75 <sub>20</sub>		4.252 152	46.98	14.304 146	60.65 118	14.778	17.56 261
4	26		28.14 380	4.404 200		14.450 194	61.83	14.912 183	14.95 274
Dez.	6	57.14 57 57.71 73	24.34 356 20.78 323	4.604 244 4.848 281	48.14 <sub>140</sub> 49.54 <sub>161</sub>	14.644 <sub>238</sub> 14.882 <sub>275</sub>	63.24 <sub>163</sub> 64.87 <sub>180</sub>	15.095 228	281
		/3			49.34 161				9.40 281
	16	58.44 88	17.55 279	5.129 310	51.15 178	15.157 304	66.67	15.591 301	6.59 273
	. 26	59.32 100	14.76 228	5.439 220	52.93 180	15.461 325 15.786	08.01	15.892 324 16.216	6.59 3.86 <sub>256</sub>
1970	36	60.32	12.48	5.768	54.82	15.786	70.61	16.216	1.30
Mittl	L Ort	61.25	47.43	3.850	40.61	13.899	54.44	14.552	27.23
sec 8	tg δ	4.731	+4.624	1.016	-o.177	1.005	-0.101	1.061	+0.353
a,	a'	-0.2	-17.0	+3.2	-16.9	+3.1	<b>—16.</b> 7	+2.8	-16.7
b.	b'	-0.26	+ 0.53	+0.01	+ 0.54	+0.01	+ 0.55	-0.02	+ 0.55

-		wa#\ 2 . 1	Pootis	= a=\ 0.	Postis		D4:		D (1
Ta	g	527) λ ]		531) 9		534) P		535) Y	
- Wine		AR.	Dekl	AR.	DekL	AR.	DekL	AR.	Dekl.
194	17	14 <sup>h</sup> 14 <sup>m</sup>	+46° 19′	14 <sup>h</sup> 23 <sup>m</sup>	+52° 5′	14 <sup>h</sup> 29 <sup>m</sup>	+30° 35′	14 <sup>h</sup> 29 <sup>m</sup>	+38° 31′
6. 1			"	8					
Jan.	I	20.764 403	40.82	22.040	30.40 244	31.222	64.51 250	55.130 363	72.37 253
17 45 4	II	21.107	30.43 -87	22.470 450	27.96	31.505	02.01	55.493	69.84 208
	21	21.504 418	36.56	22.920 454	20.05 131	31.919 356	59.90 166	55.870 380	67.76
T3. 1	31	22.002	35.20	23.374 445	24.74 68	32.2/3 247	58.24 116	50.250	66.19 101
Febr.	10	22.407 382	34.56 8	23.019 423	24.06	32.622 328	57.08 63	56.621 371 353	65.18 43
	20	22.789 348	34.48 52	24.242 388	24.02 59	32.950 303	56.45 10	56.974 325	64.75
März	2	23.137 307	35.00 108	24.030	24.61	33.253 272	56.35 =	57.299 291	64.90 69
	12	23.444 260	36.08	24.975	25.78 168	33-525 226	56.76	57.590 253	65.59 119
	22	23.704	37.64 108	25.209	27.46	33.761	57.64 129	57.843 211	66.78
April	1	23.914 159	39.62 229	25.508 239	29.57 244	33.960 160	58.93 163	58.054 167	68.40 196
	II	24.073 108	X ( ) 1 2 - 1 - 1	25.689 123	The second second	34.120	60.56 188		
	21	O A TYT	41.91 <sub>251</sub> 44.42 <sub>261</sub>	OC XTO	32.01 266	24 242	62.44 204	58.221 58.346 82	70.36
	30	26 24 220	47.03 262	2002 878	34.67 <sub>277</sub> 37.44 <sub>277</sub>	30 24.227	64.48 212	30 58.428	72.58 236
Mai	10	24.250 -	49.65 254	25 800 -	40.21 269	24 276	66.60 213	r8 460 T	74.94 243
	20	24.217 33	52.19 236	25 840 4	42.90 250	24 207	68.73 204	58.471	77·37 239 79·76 228
		/3		00				JT	
4-12-12	30	24.144 109	54.55 211	25.761	45.40 223	34-373 48	70.77 189	58.437 67	82.04 209
Juni	- 9	24.035	56.66	25.630	47.63 190	34.325 76	72.66 168	58.370 98	84.13
	19	23.893 169	50.45	25.401	49.53 152	34.249 100	74.34 143	58.272 126	85.97 152
T 1	29	23.724 192	59.89 103	25.260 229	51.05 109	34.149 123	75.77 114	58.146	87.50 118
Juli	9	23.532 209	60.92 60	25.031 250	52.14 63	34.026	76.91 81	57.996 169	88.68 <sub>81</sub>
	19	23.323 221	61.52 15	24.781 264	52-77 15	33.885 156	77.72 46	57.827 183	89.49 40
	29	23.102	$61.67 \frac{15}{31}$	24.517	$52.92 \frac{15}{32}$	33.729 165	78.18 10	57.644 193	89.89 =
Aug.	8	22.875	61.36	24.246 271	52.60 81	33.564 169	78.28 =	57.451 196	89.88
	18	22.050	60.60	23.975 262	51.79 129	33.395 167	78.02	57.255 192	89.45 85
	28	22.433 199	59.40 164	23.713 244	50.50	33.228 156	77.38 102	57.063 180	88.60
Sept.	7			23.469 216	48.76 216			56.883 161	or and a
Dopu.	17	22.234 22.060 141	57.76 205	23.253 181	46.60	33.072 <sub>138</sub> 32.934 <sub>113</sub>	76.36 <sub>138</sub> 74.98 <sub>173</sub>	16 722	87.33 <sub>166</sub> 85.67 <sub>204</sub>
	27		55.71 <sub>243</sub> <sub>53.28 277</sub>	23.072	46.60 257 44.03 292	32.821	73.25 206	56.500	83.63 239
Okt.	7	21 821	50.51 307	22.937 80	4I.II 322	22 7/2 /9	71.19 237	56.403	81.24 270
	17	2T 772 =	47-44 331	20 857	37.89 322 347	22.702	68.82 237	56.440 53	78.54 298
						9	204.	Sec. 15. 15.	
Mess	27	21.779 68	44.13 348	22.838 47	34.42 365	32.712 60	66.18 287	56.438	75.56 319
Nov.	6	21.847 132	40.05	22.885 47	1 20 77	32.772 113	63.31 305	56.491 110	72.37 334
	16	21.979	31.01 260	23.002 188	21.03 274	32.885 167	60.26 314 57.12	56.601 168	69.03 342
Dez.	26 6	1 24.14 and		23.190 255		33.052 218	57.12 316 53.96 311	56.769 224	65.61 339
Dez.	0	22.429 309	29.95 333	23.445 317	19.64 345	33.270 264	53.90 311	56.993 274	62.22 329
	16	22.738 355	26.62 305	23.762 370	16.19 315	33.534 303	50.85 295	57.267 316	58.93 307
	26	23.093 280	23.57 267	24.132 412	13.04 275	33.837	47.90 270	57.583 349	55.00 277
	36	23.482	20.90	24.544	10.29	33.837 <sub>331</sub> 34.168	45.20	57.932	53.09
Mitt)	Out	22.757	20.270.0	22.457	10.07	22 607	AT CO	r6 ror	ST 28
Mittl. sec δ,		22.137	51.55	23.491	42.21	32.691 1.162	71.59	56.595 1.278	81.38
a,		1.448	+1.048 -16.7	1.628 +2.1	+1.284 $-16.2$	+2.6	+0.592	+2.4	+0.797 -15.9
<i>b</i> ,		+2.3 -0.06	NAME OF TAXABLE PARTY.	+2.1 -0.07	+ 0.59	-0.03	—15.9 → 0.61	-0.04	+ 0.61
	18.3	0.00	+ 0.55	0.07	. 5.59	5.05	5.01	-11 ( 25 ( 14)	

-	-			. 0) C		O - \ -	Postis		(7:i:
Ta	g	537) ŋ Ce		538) α Cer		1382) 32		545) μ	
7 1-1		AR.	Deki	AR.	Dekl	AR.	DekL	AR.	Dekl.
194	47	14 <sup>h</sup> 32 <sup>m</sup>	-41° 55'	14 <sup>h</sup> 35 <sup>m</sup>	-60° 36′	14 <sup>h</sup> 39 <sup>m</sup>	+11° 52′	14 <sup>h</sup> 40 <sup>m</sup>	-5° 25′
Ton		* 606	<i>p</i>	8	,, ,,	0.043	74.50		40,70
Jan.	I	5.686	20.09 90	55.97 <sub>56</sub>	50.97 33	9.043 317	74.59 232	14.104 321	40.72 195
	21	6.096 419	20.99 124	56.53 <sub>58</sub>	51.30 81 52.11 126	9.360 317 9.688 327	72.27 211 70.16 183	14.425 <sub>329</sub> 14.754 <sub>328</sub>	10 191
	31	6.515 416 6.931 402	22.23 153 23.76 178	57.11 57 57.68 56	53.37 166	10.015 319	68.33	TC OX2	1.6
Febr.	10	7.333 381	25.54 <sub>196</sub>	58.24 <sub>53</sub>	55.03 202	10.334 304	66.83	TE 402	18 05
20011		of a control of the c						202	140
	20	7.714 352 8 066	27.50 209	58.77 48	57.05 232	10.638 281	65.70 73	15.705 281	49.55 124
März	2	0.000	29.59	59.25	59.37	10.919 255	64.97 34	15.986 256	50.79 99
	12	0.303 .0.	31.78 222	59.69 38	61.91 272	11.174 226	64.63	16.242 228	51.78 73
A 21	22	8.669 247	34.00 221	60.07 33	64.63 284	11.400 195	64.67 39	16.470 198 16.668 160	52.51 48
April	1	8.916 208	36.21 218	27	67-47 289	11.595 164	65.06 70	109	52.99 25
	II	9.124 169	38.39 210	60.67 20	70.36 289	11.759 132	65.76	16.837 140	53.24 4
	21	9.293	40.49	60.87	73.25 284	11.891 101	66.70	10.977	53.28
	30*)	3º 9.424 g2	42.40	61.02 8	76.09	11.992 72	67.82	17.088 82	53.15
Mai	10	9.516 54	44.36	61.10	78.83	12.064 42	69.07	17.170 55	52.88 38
	20	9.570 15	46.08 172	$61.13 - \frac{3}{4}$	81.40 237	12.106	70.39 133	17.225 27	52.50 45
	30	9.585	47.61	61.09 10	83.77 212	12.121	71.72 129	17.252	52.05
Juni	9	0.564	48.93 109	60.99 15	85.89 181	T2 T08 13	73.01 120	17.252 26	51.54
	19	0.506	50.02 83	60.84	87.70 146	12.070 38	74.21 109	17.226	5T.OT 33
	29	9.413	50.85 56	60.63	89.16	12.007 85	75.20	17.176	50.47
Juli	9	9.290 151	51.41 27	60.38 29	90.25 68	11.922	76.23 76	17.103 94	49.95 51
	TO		51.68		00.02	11.818	76.99		10.44
	19 29	9.139 8.966 187	51.65	60.09 33	OT TS	I TT GOY	77.54 25	17.009 112 16.897 124	49.44 46
Aug.	8	8.779	ET 22 34	59.76 34 59.42 34	00.00	TT 566	77 80 33	16.773 131	48.57
	18	8.584 193	CO 7T	59.42 59.08 34	90.99 62	TT 427	78 OT -		18 22 33
	28	8.391 180	10.82	58.74 34	89.33	11.288 132	77.00	16.510 126	1705
G		the second secon		The state of the s		THE PARTY OF THE P	30		1- 1- 1- 1- 1
Sept.	7	8.211	48.70	58.42 27	87.91	11.156 118	77.54 62	16.384 111	47.78 5
	17	8.054 122	47.38 145	58.15 22	86.16 202	11.038 95	76.92 88	16.273 89 16.184 50	47.73 9 47.82 27
Okt.	27	7.93 <sup>2</sup> 79 7.853 26	45.93 153	57.93 <sub>15</sub> 57.78 <sub>8</sub>	84.14 221	10.943 66	76.04 115	T6 T25 59	48.09
ORU.	7 17	7 827 -	44.40 152 42.88 145	57.70 8	81.93 <sub>232</sub> 79.61 <sub>231</sub>	TO 848 =	74.89 141 73.48 167	T6 T04 -	18 54 43
	TE SE	34 .		- Arreite		EV1002534		22	-
	27	7.861 <sub>98</sub>	41.43 129	57.72 12	77.30 222	10.862 61	71.81 191	16.126	49.21 90
Nov.	6	7-959 163	40.14	57.84 21	75.08 201	10.923	69.90	16.196	50.11 113
	16	8.122	39.07 79	58.05 30	73.07	11.034 ,60	107.77	10.315	51.24 136
D	26	8.349 285	39.07 79 38.28 44	58.35 28	71.34 136	11.194	105.40	10.404	52.60 156
Dez.	6	8.634 335	37.84 7	58.73 45	69.98 93	11.401 248.		16.699 256	54.16
	16	8.969	37.77 30	59.18	69.05 46	11.649 283	60.51 249	16.955 289	55.90 186
	26	9.344 403	38.07 68		68.59 =	11.932 208	58.02	17.244 313	57.76 194
	36	9.747	38.75	59.70 60.25	68.61	12.240	55.60	17.557	59.70
Mittl	. Ort	7.878	34.24	58.93	69.01	10.621	76.55	15.798	44.00
	, tg δ	1.344	-0.898	2.038	—1.776	1.022	+0.211	1.005	-0.095
	a'	+3.8	—15.8	+4.6	-15.6	+2.9	-15.4	+3.2	-15.3
	b'	+0.05	+ 0.62	+0.09	+ 0.63	-0.01	+ 0.64	0.00	+ 0.64
CALL SECTION		PI COLUMN TO THE PARTY OF THE P		The second second				The state of the s	AN ILLY - ST.

Ort des helleren Sterns. Die jährliche Parallaxe (o"756) ist bereits berücksichtigt. \*) Bei Stern 538), 1382) und 545) lies Mai x.

То	~	542) α	Apodis	547) 109	Virginis	548) α <sup>2</sup>	Librae	549) Grb 21	64 Draco
Ta	g	AR.	Dekl	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
194	47	14 <sup>h</sup> 41 <sup>m</sup>	-78° 48′	14 <sup>h</sup> 43 <sup>m</sup>	+2° 6′	14 <sup>h</sup> 47 <sup>m</sup>	-15° 49′	14 <sup>h</sup> 50 <sup>m</sup>	+59° 30′
			,		,	8		100	THE WAY OF
Jan.	I	4.00 128	59.94 38	32.336	55.32 212	54.654 329	15.60 161	3.729 466	18.84 263
	II	5.28	59.56 18	32.651 325	53.20 <sub>201</sub>	54.983 338	17.21 169	4.195 501	16.21 209
	21	6.61 134	59.74 74	32.976 325	51.19 183	55.321 339	18.90	4.696 518	14.12 148
Febr.	31	7.95 133	60.48	33.301 317	49.36 160	55.660 330	108	5.214 520	7-0- 03
Tent.	10	9.28 127	61.75 176	33.618 317	47.76	55.990 314	22.30 159	5.734 504	-
	20	10.55 119	63.51 219	33.920 280	46.43 102	56.304 294	23.89 147	6.238 474	11.65
März	2	11.74 109	65.70 257	34.200 256	45.41 70	56.598 269	25.30 132	0.712 430	12.16
	12	12.83 98	68.27 289	34.456 228	44.71 39	56.867 242	26.68	7.142 377	13.28 168
A*1	22	13.81 84	71.16 313	34.684 198	44.32 9	57.109 212	27.82 97	7.519 3/7	14.96 216
April	I	14.65 69	74.29 330	34.882 169	44.23 -7	57.321 183	28.79 79	7.834 248	17.12 254
	11	15.34 53	77.59 342	35.051 139	44.40	57.504 154	29.58 62	8.082	19.66 280
	21	15.87 37	01.01	35.190 110	44.80 59	57.658	30.20 46	1 0.2596	22.46 295
Mai	1	10.24	84.47 342	35.300 81	45.39 73	57.783 95	30.66	5 8.365 37	25.41
and the same	10	16.44 4	37.09 332	<sup>3</sup> 35.381 53	46.12 81	57.878 66	30.99 21	8.402 30	28.41 293
	20	16.48 =	91.21	35-434 26	46.93 87	57.944 37	31.20 10	8.372 93	31.34 277
	30	16.34 30	94.35 290	35.460 2	47.80 88	57.981 9	31.30	8.279 152	34.11 252
Juni	9	16.04 45	97.25 260	35.458 27	48.68 85	57.990 =	31.31 -8	8.127 205	36.63
	19	15.59 60	99.85	35.431 <sub>52</sub>	49.53 81	57.970 46	31.23 16	7.922 251	38.82 181
	29	14.99 73	102.07	35.379 75	50.34 73	57.924 72	31.07 22	7.671	40.63
Juli	9	14.26 83	103.86 179	35.304 95	51.07 64	57.852 95	30.85 29	7.381 322	42.00 90
	19	13.43 go	105.18 80	35.209 112	51.71 53	57.757 115	30.56	7.059 216	42.90 40
	29	12.53 96	105.98 27	35.097 126	52.24 41	57.642	30.22	0.713 260	43.30 -
Aug.	8	11.57 97	106.25 28	34.971 ,,,	52.65 27	57.513 138	29.82 43	0.353 266	43.19 62
	18	10.60 96	105.07	34.838	52.92 12	57.375 TAT	29.39	5.987 260	42.57 112
	28	9.64 89	105.16	34.704 128	53.04 -	57-234 135	28.95 45	5.627 344	41.45 161
Sept.	7	8.75	103.83	34.576 115	53.00 23	57.099 121	28.50 43	5.283 317	39.84 208
	17	. 7.96 66	102.03	34.461 94	52.77 43	56.978	28.07 36	4.900 278	37.76 250
	27	7.30 49	99.83	34.367 64	52.34 64	56.880 67	27.71 27	4.688 229	35.26 290
Okt.	7	6.81 30	97.30	34.303 27	51.70 87	56.813 28	27.44 14	4.459 168	32.36 323
	17	6.51 9	94.55 286	34.276 -	50.83	56.785 -	27.30 4	4.291 98	29.13 351
	27	6.42	01.60	34.291 62	49.73 134	56.802 67	27.34 24	4.193 21	25.62 372
Nov.	6	6.56	88.82 274	34.291 63	48.39	56.869	27.58 46	$4.172 \frac{2}{62}$	21.90 384
	16	6.93 60	86.08 252	1 34.400 ,60	46.82	1 46 000	28.04	4.234 146	18.06
	26	7.53 8o	03.50	34.626 207	45.05 195	57.158 218	28.75	4.380	14.19
Dez.	6	8.33 97	81.38	34.833 248	43.10 208	57.376 260	29.69 118	4.609 308	10.39 361
	16	9.30 113	79.63 127	35.081 281	41.02 214	57.636 295	30.87 138	4.917 378	6.78
	26	10.43	1 7X 2D	35.362	38.88 216	57.931 321	32.25	5.295 437	3.45 294
	36	11.67	77.63	35·362 35.669	36.72	58.252	33.79	5.732 437	0.51
Mittl	Ont	TO 60	A STATE OF THE STA	CARRELE TO A	E4.44	r6.400	21 74	5.457	31.51
sec 8,		10.62	79.84 —5.061	33.991 1.001	54·44 +0.037	56.490 1.039	21.74 0.283	1.971	+1.698
a,		5.159 +7.4	-5.001 -15.3	+3.0	-15.2	+3.3	-14.9	+1.5	-14.8
b,		+0.26	+ 0.65	0.00	+ 0.65	+0.01	+ 0.67	-o.o8	+ 0.68
	3.9033	1 . 0.20	, 0.03	De te Stall		The second	article of	2000	100000

Ta	1.0*	550) 🖟 Ur	sae min.	551) Pi 14 <sup>h</sup>	221 Boot	552) β	Lupi	555) β	Bootis
	.0	AR.	Dekl.	AR.	Dekl.	AR.	Dekl	AR.	Dekl.
19	47	14 <sup>h</sup> 50 <sup>m</sup>	+74° 21'	14 <sup>h</sup> 53 <sup>m</sup>	+14° 39′	14 <sup>h</sup> 55 <sup>m</sup>	-42° 55′	14 <sup>h</sup> 59 <sup>m</sup>	+40° 35′
Jan.	I	47.90 48.67 77	65.65 246	41.364 312	30.95 238	0.579 407	5.30 63	55.249 348	45.99 275
	II	48.67 84	63.19 188	$41.676 \frac{312}{325}$	28.57 216	0.980	5.02	55·597 <sub>371</sub>	43.24 231
	21	49.51 00	61.31 125	42.001 328	26.41 186	1.407 424	6.90 126	55.968 380	40.93 180
	31	50.39 90	60.06 57	42.329 222	24.55 151		8.10	56.348 380	39.13 125
Febr.	10	51.29 88	59.49 37	42.652 310	23.04 111	2.246 415	9.68 173	56.728 368	37.88 65
465	20	52.17 83		42.962 290	27.02	2.645	11.41 188	57.096 347	27 22
März	2	53.00 75	59.61 78 60.39 140	43.252 265	27 24	3.019 345	13.29 200	57.443 319	
	12	53.75 65	61.79 194	43.517 238	20.07	3.364 312	15.29 206	57.762 284	37.19 53 37.72 107
	22	54.40 53	63.73 240	43.755 208	2T.TT 14	3.676 278	17.35 209	58.046 245	38.79 155
April	I	54.93 41	66.13 275	43.963	OT 60 51	3.954 241	19.44 209	58.291 203	40.34 195
36			275	W. (T) 1 (1) (1)	03				
	II	55.34 26	68.88	44.140 146	22.45 110	4.195 203	21.53 205	58.494 161	42.29 224
Mai	21	55.60 13	71.86 310	44.286 115	23.55 130	4.398 164	23.58 197	58.655 117	44.53 245
141501	I	55.73 -2	74.96 310	6 44.401 84	24.85 143	4.562	25.55 189	\$ 58.772 74	46.98 255
	10 20	5 55.71 15	78.06 300	644.485 54	26.28 149	6 4.687 85	27.44 176	<sup>8</sup> 58.846 33	49.53 257
	20	55.56 28	81.06 300 278	44.539 25	27.77 151	4.772 45	29.20 161	$58.879 \frac{3}{9}$	52.10 248
	30	55.28 54.80 39	83.84 249	44.564	29.28 146	4.817 4	30.81 143	58.870 47	54.58 233
Juni	9	34.09 50	80.33	44.560	30.74 126	4.821	32.24 123	58.823 82	56.91 210
	19	54.39 58	88.45	44.528 58	32.10	4.786 74	33.47 100	58.741 116	59.01 .80
	29	53.81 6	90.14 122	44.470 %	33.33 105	4.712 110	34.47 74	58.625 146	60.81
Juli	9	53.16 71	91.36 72	44.388 103	34.38 86	4.602	35.21 47	. 58.479 171	62.28 109
	19	52.45 74	92.08 18	44.285 122	35.24 63	4.460 169	35.68 18	58.308 193	63.37 68
	29	3/	$92.26 \frac{10}{35}$	44.163	35.87 40	4.291 189	35.86 =	58.115 207	64.05 25
Aug.	8	50.94	91.91 00	44.027	36.27 14	4.102	35.74 41	57.908 216	64.30 =
	18	50.1/ 74	91.03	43.882	36.41 =	3.900	35.33 70	57.692 217	64.11 62
	28	49.43 72	89.64 188	43.735	36.29 39	3.696	34.63 96	57.475 211	63.49 106
Sept.	7	48.71 66	87.76	43.592 130	35.90 66	3.500 178	33.67 117	57.264 196	62.43 148
	17	48.05 59	105.41	43.462 109	25 24	3.322	32.50 135	57.068	60.95 189
	27	47.46 49	82.65 313	43.353 81	34.29 95	3.175 105	31.15	56.898 170	59.06 228
Okt.	7	40.97	1 /9.52 24	43.272 45	33.05 151	3.070 54	29.68	56.760 96	56.78 263
	17	46.58 39	76.07 345	43.227 2	31.54 178	$3.016 \frac{37}{5}$	28.17 148	56.664 46	54.15 293
	27	46.32 13	72.28	43.225	29.76 203	3.02I	26.69 137	56.618	51.22 319
Nov.	6	$46.19 \frac{13}{2}$	68.52 393 64.50	43.269 44	27.73 225	1 227	25.32 119	56.627	18.03
	16	16 2T	64.59 393	43.363 94		3.091 <sub>136</sub> 3.227 <sub>202</sub>	24.13 95	56.695 128	44.66 348
	26	46.28 17	64.59 393 60.67 380	43.508	25.48 242 23.06 255	3.429 264	23.18 65	56.823 188	41.18 351
Dez.	6	46.70 46	56.87 356	43.701 236	20.51 261	3.693 318	23.18 6 <sub>5</sub> 22.53 <sub>31</sub>	57.011 243	37.67 343
	16		1000 CO 1000 C		- C	AND DESCRIPTION OF THE PARTY OF	22.22	STORY OF THE STORY	
1	26	47.16 47.75 70	53.31 50.08 323	43.937 272	17.90 259	4.011 363	22.27	57.254 290	34.24 325
	36	48.45	47.29	44.209 302	15.31 249	4·374 397 4·771	22.27 41	57.544 <sub>331</sub> 57.875	30.99 297 28.02
34.11				West Res			Part of the Delivery	100000	40000000
	L Ort	50.17	79.69	43.002	33.93	2.974	18.36	56.892	55.36
	a'	3.712	+3.575	1.034	+0.262	1.366	-0.930	1.317	+0.857
	<i>a</i> <i>b'</i>	-0.2	-14.7	+2.8	-14.6	+3.9	-14.5	+2.3	-14.2
0,	1	81.0—	+ 0.68	I-0.0I	+ 0.69	1+0.04	+ 0.69	1-0.04	+ 0.71

Ta.		556) o I	Librae	557) ψ :	Bootis	558) ζ	Lupi	563) δ I	Bootis
	6	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl
194	17	-15 <sup>h</sup> o <sup>m</sup>	-25° 4'	15 <sup>h</sup> 2 <sup>m</sup>	+27°8′	15 <sup>h</sup> 8 <sup>m</sup>	-51°53'	15 <sup>h</sup> 13 <sup>m</sup>	+33° 30′
Jan.	1	55.674 341	21.73 123	8.737 318	65.50 262	24.952 460	42.44	20.162 322	33.60 276
	II	56.015 353	22.96 139	9.055 336	62.88	25.412	12.50	20.404	30.84 239
	21	50.300	24.35 1	9.391 242	60.59 189	25.891 <sub>487</sub>	43.14	20.827 353	28.45
	31	56.724 349	25.86	9.733	58.70 143	20.370	44.06 92	21.180 353	26 50
Febr.	10	57.073 336	27.45 160	10.073 348	57.27 92	26.860 467	45.32 155	21.535 346	25.06 89
	20	57.409 316	29.05 158	10.401 310	56.35 39	27.327 444	46.87 181	21.881 328	24.17 32
März	2	57.725 202	30.63	10.711	55.96 TI	27.771	48.68	22.209	23.85 =
	12	58.018	32.15	10.996	56.07 60	20.104 278	50.70 216	22.514 276	24.09 76
	22	58.283	33.59 132	11.251 224	56.67 103	28.562	52.86	22.790 242	24.85 123
April	Ι	50.520 207	34.92 121	11.475 190	57.70 141	28.901 297	55.14 235	23.032 207	26.08 163
	II	58.727 177	36.13 110	11.665	59.11	29.198 253	57.49 238	23.239 170	27.71 195
Ma:	21	58.904 146	37.23 97	11.820 120	60.81	29.451 207	59.87 236	23.409 132	29.66 218
Mai	1 10*)	59.050 116	38.20 85	8 11.940 85	62.72 204	29.658 160	62.23 231	23.541 94	31.84 232
	0.1 10	59.166 84	39.05 74	12.025 50	64.76	29.818	64.54 222	23.635 56	34.16 237
	20	59.250 52	39.79 62	12.075 18	66.85 206	29.929 61	66.76 208	23.691 20	36.53 233
	30	59.302 20	40.41	12.093	68.91	29.990 10	68.84 191	23.711	38.86 221
Juni	.9	59.322 -	40.90 38	12.078 46	70.00 180	30.000 =	70.75	23.694 50	41.07 204
	19	59.311 42	41.28 26	12.032 74	72.68	29.961 88	72.45	23.644 83	43.11 180
	29	59.269 72	41.54 12	11.958 102	74.27 133	29.873 132	73.90 116	23.561	44.91
Juli	9	59.197 98	41.66 -	11.856 125	75.60 104	29.741	75.06 85	23.448 139	46.42 118
	19	59.099 121	41.64	11.731 145	76.64 73	29.567 210	75.91 50	23.309 162	47.60 81
	29	58.978	41.50 28	11.586 160	77-37 38	29.357	76.41 13	23.147 179	48.41
Aug.	8	58.839 151	41.22	11.426	77.75 3	29.122	76.54 = 22	22.968	48.85
	18	58.688	40.81	11.256	$77.78 {33}$	28.870	76.32 59	22.778	$48.89 \frac{1}{36}$
	28	58.532 152	40.30 61	11.083 168	77.45 69	28.611	75.73 94	22.583 192	48.53 77
Sept.	7	58.380 138	39.69 68	10.915 156	76.76 105	28.360 231	74.79 124	22.391 180	47.76 116
	17	58.242	39.01 70	10.759	75.71	28.129 197	73.55	22.211	46.60 156
	27	58.127 82	38.31 68	10.623 106	74.31 175	27.932	72.05	22.051 130	45.04 193
Okt.	7	58.044 42	37.63 62	10.517 60	172,50	27.782 01	70.34 782	21.921 02	43.11
	17	58.001 = 5	37.01 51	10.448 26	70.48 237	27.691 23	68.51 188	21.828 48	40.82 259
	27	58.006	36.50	10.422	68.11 263	27.668 52	66.63 184	21.780 3	38.23 287
Nov.	6	58.063	36.15	10.446	105.48	27,720	1 04 70	21.783 58	35.30
	16	58.175 167	36.01	10.523	02.04	27.850 208	U3.00 TAD	21.841	32.27 222
	26	50.342	30.10	10.053 782	1 23.02 208	20.030 281	01.39 122	21.955	1 330
Dez.	6	58.561 264	36.45 6i	10.835 229	56.57 307	28.339 347	60.37 88	22.125 221	25.74 329
	16	58.825 303	37.06 87	11.064 271	53.50 297	28.686 401	59.49 50	22.346 267	22.45 316
	26	59.128 331	37.93 110	11.335 304	50.53 279	29.007	58.99	22.613 304	19.29 295
225	36	59.459	39.03	11.639	47.74	29.531	58.89	22.917	16.34
	L Ort	57.708	29.93	10.382	71.84	27.802	56.52	21.863	41.41
	, tg δ	1.104	-o.468	1.124	+0.513	1.621	-1.275	1.199	+0.662
	a'	+3.5	-14.I	+2.6	<b>—14.0</b>	+4.3	-13.6	+2.4	-13.3
Ъ,	b'	+0.02	+ 0.71	-0.02	+ o.7I	l +o.o6	+ 0.73	I —o.o3	+ 0.75

<sup>\*)</sup> Bei Stern 563) lies Mai 11.

Ta	~	560) γ Tria	ang. austr.	565) 1 H. U	Irsae min.	564) β	Librae	566) φ <sup>1</sup>	Lupi
14	ő	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl,
19.	47	15 <sup>h</sup> 13 <sup>m</sup>	-68° 28′	15 <sup>h</sup> 13 <sup>m</sup>	+67° 32′	15 <sup>h</sup> 14 <sup>m</sup>	-9° 11'	15 <sup>h</sup> 18 <sup>m</sup>	-36° 4'
Jan.	I	51.42	52.35 51	58.99 <sub>54</sub>	38.77 281	7-147 309	15.84 171	23.703 365	3.93 66
	II	52.13 74	51.84 3	59.53 60	35.96 227	7.456 323	17.55 172	24.068 383	1.50
	21	52.87 76	$51.81 \frac{3}{46}$	60.13 64	33.69 166	7.779 328	19.27 168	24.451 389	5.52 115
	31	53.63 76	52.27 94	60.77 6	32.03 101	8.107	20.95	24.840 387	6.67
Febr.	10	54.39 74	53.21 137	61.42 65	31.02 32	8.432 325	22.52 142	25.227 375	8.01
	20		-3/	and the second second					
März	20	55.13 71	54.58 176	62.07 62	30.70 31.06	8.746 298	23.94 <sub>124</sub> 25.18 <sub>102</sub>	25.602	9.50 158
Mai Z	12	55.84 67	56.34 210	62.69 58		9.044 277	26.20	25.959 334 26.202	
	22	56.51 61	58.44 239	63.27 52	32.07 160	9.321 254	26.99 79	26.293 308 26.601 270	12.72 167
April	I	57.12 54 57.66 48	60.83 263 63.46 281	63.79 44	33.67 211	9.575 <sub>228</sub> 9.803 <sub>201</sub>	27 56 31	26.880 <sup>279</sup> <sub>248</sub>	14.39 166
21.0111	Carri			64.23 35	35.78 252	P	27.50 36	Contract the Contract of the C	16.05 164
	II	58.14 40	66.27 293	64.58 27	38.30 283	10.004	27.92	27.128 216	17.69 158
	21	58.54 22	69.20 300	64.85	41.13	10.1786	28.09	27.344 182	19.27
Mai	I	50.07 22	72.20 300	65.01 7	44.15	10.324 117	28.10 =	27.526	20.79
	II	59.10	75.20	05.00	47.25 207	110.441 89	27.97 24	27.073	22.23
	20	59.25 6	78.15 284	11 65.06 11	50.32 294	10.530 59	27.73 <sub>31</sub>	27.784 74	23.58 135
	30	59.31 2	80.99 266	64.95 20	53.26 270	10.589	27.42	27.858 36	24.82
Juni	9	59.29 12	83.65 243	64.75 -0	55.96 239	10.619	27.05 37	$27.894 \frac{36}{1}$	25.02
	19	59.17 20	86.08 213	64.47 34	58.35	10 6TO	26.64 42	27 802	26.80
	29	58.97	88.21 179	64.13 41	60.36	10.500	26.22	27.854 75	27.68 79
Juli	9	58.69 34	90.00 179	63.72 45	61.95	10.533 82	25.80 42	27.779 108	28.29 40
	7.0				62.06	The second second		ON A COME BY THE PARTY OF THE P	28.69
	19	58.35 41	91.39 96	63.27 62.78 49	63.66 60	10.451 105	25.38 41	27.671 136	28.88 =
Aug.	29 8	57.94 45	92.35 49 92.84 2	62.76 52	7	10.346	24.97 <sub>38</sub> 24.59 <sub>35</sub>	27.535 <sub>160</sub>	28.85 3
mug.	18	57.49 47	92.86 -	62.26 53	63.75 44 63.31 07	10.222 10.085 143	24.24 35	27.375 <sub>177</sub> 27.198 <sub>184</sub>	28.59
	28	57.02 48 56.54 47	02 20 4/	61.73 53 61.20 51	62.34 97	9.942 141	22.02	27.014 <sub>183</sub>	28 T2 T/
- 1			7.5					CONTRACTOR OF THE PARTY OF THE	Ua
Sept.	7	56.07 43	91.44 139	60.69 49	60.87	9.801 132	23.69 16	26.831 170	27.44 86
	17	55.64 38	90.05 778	00.20	58.92	9.669 114	23.53 6	26.661	26.58
01.	27	55.20 30	88.27	59.76 28	50.50	9.555 87	23.47 7	20.514	25.58 108
Okt.	7	54.96 20	86.17 235	39.30 00	53.67 319	9.468 51	23.54 22	26.401 69	24.50
	17	54.76 9	83.82 250	59.08 23	50.40 350	9.417 10	23.76 40	26.332	23.38 109
	27	54.67	81.32 253	58.85 12	46.98 373	9.407 38	24.16 60	26.314 40	22.29 100
Nov.	6	54.70 15	78.79	58.73	1 4.5-4.7 ,00	9.445	24.76 82	26.354	21.20
	16	54.85 28	76.32 231	58.71 -9	39.37 394	9.534 139	25.58	26.456	20.44 64
	26	55.13 40	14.01 205	58.80 19	35-43 389	9.0/3 rRR	20.01	20.019	19.80 38
Dez.	6	55.53 51	71.96 169	58.99 31	31.54 374	9.861 231	27.85	26.840 273	19.42
	16	56.04 60	70.27 128			10.092 269	29.27		
	26	56.64 68	68.99 82	59.30 <sub>41</sub>	27.80 347	10.361 299	30.84 167	27.113 318	19.31
	36	57.32	68.17	59.71 60.20	24.33 <sub>309</sub> 21.24	10.660	32.51	27.431 353 27.784	19.50 48
Mittl.		55.81	68.67	61.17	51.82			26.062	1000
sec δ,		DOLL PROCESSING TO SELECTION	ACTUAL DESIGNATION OF THE PARTY	2.618	+2.420	9.044 1.013	19.07 -0.162	MANAGER CONTRACTOR	13.93 0.728
a,		2.727 +5.6	-2.537 -12.3	+0.7	-13.3	CONTRACTOR OF THE PARTY OF			-0.728
<i>b</i> ,		+0.11	-13.3 + 0.75	-0.7 -0.11	+ 0.75		-13.3 + 0.75	THE RESERVE OF THE PARTY OF THE	-13.0 + 0.76
2200		(F1874 - 1574)	0.75	397,037,57	9.75		. 0.75	0.03	0.70

	-	569) γ Ur	sae min.	568) μ Bo	ootis pr	571) i D	raconis	572) β Coronae bor.	
Ta	lg	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
194	47	15 <sup>h</sup> 20 <sup>m</sup>	+72° 0′	15 <sup>h</sup> 22 <sup>m</sup>	+37° 33′	15 <sup>h</sup> 23 <sup>m</sup>	+59° 8′	15h 25m	+29° 16′
Jan.	ı	4 T T 2	68.25 280	27 115	24 77	12.754	52.00	26.760	67"58
Jan.	II	45.12 63	65.45 228	27.445 <sub>322</sub> 27.767 <sub>347</sub>	34.77 285	42.754 <sub>421</sub> 43.175 <sub>465</sub>	10 06 294	36.769 <sub>305</sub> 37.074 227	67.58
	21	45·75 7° 46.45 75	63.17 167	28.114 362	31.92 <sub>247</sub> 29.45 <sub>200</sub>	43.640 495	46.61 245	27 AOT 34/	64.83 242 62.41 202
	31		61.50		27.45 <sub>146</sub>	44.135 507	44.74	25 740 339	
Febr.	10	47.98 78	60.50 32	28.841 365 28.841 359	25.99 89	44.642 504	43.50 57	38.082 342 336	58.84 103
			-	339	25.10		42.93	38.418	0-
März	20	48.76	60.18	29.200 343	24.80 30	45.146 487	12.02	28 770	FF 00 =
Marz	12	49.52 70 50.22 63	60.53 100 61.53 160	29.543 320 29.863 292	25.00	45.633 454 46.087 410	43.79 76	20.020	27 28
	22	50.85 54	63.13 212	30.155 <sub>258</sub>	25.09 83 25.92 133	46.497 358	45.15 189	39.314 245	57.04
April	I	51.39 44	65.25 254	30.413 221	27.25 175	46.855 297	47.04 234	39.559 213	58 07
	-							111	1 - + 3
	II	51.83 32	67.79 285	30.634 182	29.00 209	47.152 232	49.38 268	39.772	60.40 62.16
Mai	21	52.15 21	70.64 305	30.816	31.09 233	47.384 165	52.06 290	39.951 <sub>144</sub> 40.095 <sub>108</sub>	
Mai	I II	52.36 8	73.69 314	30.958 102 31.060 61	33.42 248	47.549 96 47.645 27	54.96 303	40.203	64.17 217 66.34 225
	20	52.44 4 52.40 15	76.83 310 79.93 297	ISOT TOT	35.90 254 38.44 251	14 6	57.99 304 61.03 294	14,10,276	68.59 224
				1 - A FE -		30		3/	
	30	52.25 26	82.90 275	1.14 3 17	40.95 239	47.634 102	63.97 277	40.313 2	70.83 215
Juni	9	51.99 36	85.65 244	31.126 55	43.34 220	47.532 161	66.74 249	40.315 32	72.98 200
	19	51.63 45	88.09 206	31.071 90	45.54 194	47.371 215	69.23 215	40.219	74.98 <sub>180</sub> 76.78
Juli	29	1 71.10	90.15 163	30.981 122	47.48 164 49.12	47.156 263	71.38 176	40.124 95	78 22 37
• ani	9	50.66 52	91.78 116	30.859 151	49.12 130	46.893 303	73.14 132		- 3416
	19	50.08 64	92.94 65	30.708 175	50.42 91	46.590 336	74.46 84	40.002	79.56 92
	29	49-44 66	93.59 13	30.533 195	51.33 51	40.254 26r	75.30 34	39.855 166	80.48 56 81.04 30
Aug.	8	48.78 68	93.72 40	30.338 208	51.84 8	45.893 376	75.64 = 17	39.689 179	81.24
	18	48.10 69	93.32 93	30.130 <sub>214</sub> 29.916 <sub>212</sub>	51.92 34	45.517 380	75.47 68	39.510 <sub>186</sub> 39.324 <sub>186</sub>	8T OF 19
	20	47.41 66	92.39 143		51.58 77	45.137 373	74.79 119	- 11 31 1100	20
Sept.	7	46.75 63	90.96	29.704 201	50.81	44.764 355	73.60 168	39.138	80.49 95
	17	46.12 58	89.03 228	29.503 181	49.61	44.409 224	71.92 214	38.961 159	79.54 132
01-4	27	45.54 51	80.05 280	29.322 152	48.00 200	44.005 282	69.78 257	38.802 132 38.670 07	78.22 169
Okt.	7	45.03 42	83.85	29.170 114	46.00 237	43.803 227	67.21 296	28 572	76.53 204
	17	44.61 42	80.68 347	29.056 68	43.63 269	43.576 162	64.25 329		74.49 235
	27	44.29 20	77.21 371	28.988 16	40.94 298	43.414 89	60.96	38.519 6	72.14 264
Nov.	6	44.09 8	73.50 00	28.972 -	37.90	43.325 8	1 31.33 275	38.513 46	69.50 287
	16	44.01 -6	09.04	29.013	34.15 226	43.317 77	53.04 385	38.559 102	66.63 304
- Dez.	26	44.07 19		I J I I I	1 0 0/ 2/2		49.79 386	38.661	63.59 314
Dez.	6	44.26 32	61.84 373	29.271 212	27.97 340	43.556 244	45.93 375	38.817 206	60.45 316
	16	44.58 45	58.11 346	29:483 262	24-57 328	.43.800 319	42.18 353	39.023 250	57.29 308
	26	45.03 56	54.05 200	29.745 303	21.29 304	44.119 385	30.05 321	39.273 288	54.21 291
1000	36	45.59	51.56	30.048	18.25	44.504	35.44	39.561	51.30
Mitt	l. Ort	47.64	81.45	29.201	43-37	44.747	63.99	38.527	74-44
	, tg δ	3.240	+3.082	1.262	+0.769	1.950	+1.674	1.147	+0.561
a,	, a'	-0.1	-12.8	+2.3	-12.7	+r.3	-12.6	+2.5	-12.5
b,	b'	-0.13	+.0.77	-0.03	+ 0.77	I —o.o7	+ 0.78	] -0.02	+ 0.78
								I 47	

_		573) v <sup>1</sup>	Bootie	578) α Coro	mae bor	577) γ Librae		1410) 115 G. Lupi	
Ta	g	573) V	Dekl.	AR.	Dekl.	577) Υ L AR.	Dekl.	AR.	Dekl.
_									
194	17	15 <sup>h</sup> 28 <sup>m</sup>	+41° 0′	15 <sup>h</sup> 32 <sup>m</sup>	+26° 53′	15 <sup>h</sup> 32 <sup>m</sup>	-14° 36′	15 <sup>h</sup> 32 <sup>m</sup>	-44° 13'
Jan.	1	59.616 325	37.04 293	24.742 298	24.75 273	31.359 306	47.30 142	30.953 394	3·54 <sub>19</sub>
	II	59.941	34.11	25.040 320	22.02	31.005	48.72	31.347	3.73 51
	21	60.295 371	31.58	25.300	19.59	31.989 324	50.21	31.764	4.24 gr
	31	60.666	29.54	25.693	17.54 160	32.321 331	51.71 146	32.191	5.05
Febr.	10	61.043 372	28.05 90	26.029 332	15.94 110	32.652 324	53.17	32.619 420	6.12
	20	61.415	27.15 29	26.361	14.84 58	32.976 310	54.54 124	33.039 404	7.42 149
März	2	61.773 336	26.86 32	26.679 299	14.26 5	33.400	55.78 109	33.443	8.91 762
	12	62.109 307	27.18 88	20.978	14.21 45	33.578	56.87 91	33.825	10.54
	22	62.416	28.06	27.253 248	14.66	33.849 248	57.78 74	34.180 355	12.29 182
April	1	62.689 273	29.46 184	27.501 217	15.57	34.097 222	58.52 56	34.504 292	14.11 186
	II	62.923	31.30 218	27.718 185	16.88	34.319 196	50.08	34.796 256	15.97 188
	21	03.117	33.48 245	27.903	18.53	34.515 168	50.48	35.052 219	17.85 187
Mai	1	63.269 109	35.93 260	28.054	20.43 207	34.683	59.75	35.271 180	19.72 183
	II	63.378 65	38.53 266	28.171	22.50	34.823	59.89 4	35.451 <sub>138</sub>	21.55 176
	20	63.443 22	41.19 263	16 <sub>28.253</sub> 47	24.66	163,4-934 80	59.93 -	35.589 96	23.31 168
	30	62.465	43.82 251	28 200	26.83 209	25.074	59.89	35.685	
Juni	9	62.117	46.33 232	28 212	28.92	25 062	50.70	35.736 7	24.99 <sub>155</sub> 26.54 <sub>140</sub>
	19	63.388	48.65 205	28.292	30.89 177	25.070 -	50.64	25 712 -	27.94 122
	29	62.20T	50.70	08 000 33		25 064	E0 4E 19	25 505	20 Th
Juli	9	62 760	52.43 138	28.154 113	34.20 154 34.20 126	25 010 +3	50.22	35.625 <sub>120</sub>	
	1011	102				/3	-3		
	19	62.998 189	53.81 98	28.041 138	35.46 95	34.944 100	58.98 27	35.505 156	30.93 50
4477	29	62.809 210	54.79 55	27.903 758	36.41 61	34.844 123	58.71 29	35-349 184	31.43 22
Aug.	8	62.599 225	55.34 12	27.745 173	37.02 26	34.721 139	58.42 31	35.165 205	31.65 7
	18 28	62.374 231	55.46 33	27.572 181	37.28 -	34.582 149	58.11 32	34.960 217	31.58 36
	20	62.143 231	55.13 79	27.391 181	37.18 47	34.433 150	57.79 31	34.743 217	31.22 65
Sept.	7	61.912 220	54.34 122	27.210	36.71 83	34.283. 143	57.48 28	34.526 206	30.57 gi
	17	61.692	53.12 165	27.030	35.88	34.140	57.20 23	34.320 182	29.66
	27	61.402	51.47 206	20.070	34.67	34.013 101	56.97 16	34.138 145	28.53
Okt.	7	61.322	40.4I	26.746 08	33.11	33.912 67	56.81	33.993 08	27.23
	17	61.190 85	40.90 278	26.648 57	31.20	33.845 25	$ 56.76 - \frac{3}{8} $	33.895 43	25.81 147
	27	61.105 31	44.18 308	26.591 9	28.98 251	33.820	56.84	33.852 21	24.34 143
Nov.	6	61.074	41.10 33° 37.80 346	26.582	26.47 275	1 33.0/12	57.09 44	33.873 90	22.91
	16	61.101 00	37.80 336	26.624	23.72	33.916	57.53 64	33.963 159	21.58 117
	26	61.189	34.34	20,720	20.79 205	34.042	58.17 85	34.122 224	20.41 94
Dez.	6	61.339 208	30.81 353	26.869 199	17.74 308	34.218 222	59.02 105	34.346 284	19.47 65
	16	61.547	27.32	27.068	14.66	34.440	60.07	34.630 337	18.82
	26	01.005	23.95 313	27.312 280	11.64 287	34.703 294	61.29 136	34.967 378	18.47 35
	36	62.109	20.82	27.592	8.77	34.997	62.65	35.345	18.45
Mittl	Ort	61.421	46.23	26.532	21.10	22.402	CT 22	22.65	14.38
	$tg \delta$	1.325	+0.870	1.121	31.10 +0.507	33.403	51.22 —0.261	33.651	-0.973
	a'	+2.2	-12.3	+2.5	-12.0	1.033 +3.4	-0.201 -12.0	1.395 +4.1	-12.0
	b'	-0.04	+ 0.79	-0.02	+ 0.80	+0.01	+ 0.80	+0.04	+ 0.80
1500	4/30/67		19	STATE SE		La Ca Nairell	0.00	0.04	

	7 15	582) α Se	arnantis	583) β Serpentis		590) ζ Ursae min.		584) × Serpentis	
Tag	5	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	
-					11-11-11				Dekl.
194	7	15 <sup>h</sup> 41 <sup>m</sup>	+6° 35′	15 <sup>h</sup> 43 <sup>m</sup>	+15° 34′	15 <sup>h</sup> 45 <sup>m</sup>	+77° 57′	15h 46m	+18° 17′
Jan.	I	37 400	26.20 219	42 510	67 21	50.60	T7 64	то 26т	70.00
	11	37.400 <sub>284</sub>	24.01 <sub>206</sub>	42.510 283	67.31 <sub>247</sub> 64.84 <sub>227</sub>	CT 25 //	17.64 295	19.261 282	70.09 256
	21	37.684 304 37.988 314	21.95 186	42.793 304	62.57 200	52.28 101	14.69 245 12.24 189	19.543 303 19.846 317	67.53 233 65.20 304
	31	38.302 314	20.09 160	43.097 316	60 57	52.20 101	10.35 125	20.163 317	62 16 204
nem n	10	38.619 317	18.49	43.413 320	60.57 <sub>164</sub> 58.93 <sub>124</sub>	53.29 <sub>108</sub> 54.37 <sub>111</sub>		20.485 318	67 50
1 0.01.			129	43.733 315			20		124
	20	38.930 <sub>301</sub>	17.20 94	44.048 306	57.69 82	55.48 110	8.52 10	20.803 308	60.26
März	2	39.231 284	16.26 57	44.354 280	56.87 37	56.58 105	8.62	21.111	59.48 32
	12	39.515 264	15.69 21	44.643	56.50 -6	57.63 95	9.39 728	21.403	59.16 =
	22	39.779 242	15.48 =	44.QII	56.56	58.58 84	10.77	21.075	59.30 6
April	1	40.021 216	15.62	45.156 219	57.03 84	59.42	12.70 238	21.923 222	59.86
	II.	40.237 191	16.06	45.375 192	57.87 114	60.12	15.08 273	22.145 194	60.80
	21	10 108	16.78 72	45.567 162	59.01 139	60 66 54	17.81 298	22.339 164	62 06 120
Ma	I	40.591 134	17.71 93	45.729 132	60.40 156	67.00	20.79 312	22.503 133	62 58 152
	II	40.725 105	LTX XO	1 45.86T		61.20			65 27
	20	1.70.X30	20.00 126	1945 062	63.62	61.20	27.04 313 27.04 305	1900 728	67.08 184
	200	/ 7				10	CALL TO SERVICE SERVICE		104
	30	40.904	21.26 125	46.031	65.33 169	61.02	30.09 286	22.807 36	68.92 181
Juni	9	40.948 13	22.51	40.008	67.02 161	60.67	32.95 260	22.843 3	70.73
	19	40.961 =	23.73 114	46.073 =	68.63 148	60.16 65	35.55 226	$22.846 \frac{3}{29}$	72.40
T. 1:	29	40.943 48	24.87 102	46.047 58	70.11	59.51 <sub>78</sub>	37.81 186	22.817 60	74.05 141
Juli	9	40.895 77	25.89 89	45.989 86	71.43 112	58.73 88	39.67 140	22.757 89	75.46 119
	19	40.818 102	26.78	45.903 112	72.55 89	57.85	41.07 92	22.668 116	76.65 95
	29	40.716	27.51 73 56	45.791	73.44 64	56.88 97	41.99 42	22.552 -08	77.60 67
Aug.	8	40.593	28.07	45.657 150	74.08 38	55.85 107	42.41 ===	22.414	78.27 39
	18	40.453	28.44 37	45.507 161	74.46 10	54.78 108	42.30 62	22.259 166	78.66
	28	40.303	28.62 -	45.346	74.56 =	53.70 107	41.67	22.093 169	78.75 =
Sept.					74.00	THE PARTY NAMED IN		21.924 164	78.54
peh.	7	40.149 148	28.58 26 28.32 40	45.182	74.38 48	52.63 103 51.60 08	40.53 <sub>164</sub> 38.89 <sub>211</sub>	21.760 150	78 00 JT
	17	40.001 134 39.867 III	27.83 49	45.023 144 44.879 122	73.90 78	FO 60	36.78 255		77 TE 05
Okt.	27 7	111	27.03 72 27.II 07		73.12 107 72.05 127		34.23 294	21.482	75.99 148
OHU.	17	39.756 80 39.676 42	26.14 97	44.666 91	70.68 166	18.08	31.29 327	OT 285 7/	71 ET
				54		3		30	
	27	39.634	24.93 146	44.614 7	69.02	48.35 46	28.02 355	21.327 14	72.74 205
Nov.	6	39.637	23.47 168	44.007	67.10	47.89 29	1 24.41	21.313 =	70.69 230
	16	39.689	21.79 180	44.648	64.93	47.60 TO	1 20.13 284	21.349 88	08.39
	26	39.791	19.90 206	44.740	02.50 252	47.50 =	1 10.09 282	21.437 138	265
Dez.	6	39.941 196	17.84 217	44.883 190	60.04 261	47.60 30	13.04 374	21.575 186	63.24 272
	16	40.137 236	15.67 224	45.073 232	57.43 262	47.90	9.30 353	21.761 229	60.52 273
	26	40.373 270	13.43 223	45.305 267	54.81 256	18 20 49	5.77 353	21.990 265	57.79 265
	36	40.643	11,20	45.572	52.25	49.06	5.77 <sub>321</sub> 2.56	22.255	55.14
A Ties					- 70-2-	=(-,-	1855	12/2/63	
Mittl.		39.292	27.92	44.369	71.19	54.26	30.31	21.123	74.61
sec δ,		1.007	+0.116	1.038	+-0.279	4.793	+4.688	1.053	+0.331
a, a		+2.9	11.4	+2.8	-II.2		-11.1	+2.7 -0.01	-11.0 + 0.83
·b,	0	0.00	+ 0.82	10.0T	+ 0.83	—o.17	<b> 0.83</b>	I*	

	187	585) μ S	erpentis	588) ε Se	rpentis	589) β Tria	ng. austr.	593) ε Coro	onae bor.
Ta	ළ <u> </u>	AR.	Dekl	AR.	Dekl.	AR.	Dekl	AR.	Dekl.
19	47	15 <sup>h</sup> 46 <sup>m</sup>	-3° 16′	15 <sup>h</sup> 48 <sup>m</sup>	+4° 37′	15 <sup>h</sup> 50 <sup>m</sup>	-63° 15′	15 <sup>h</sup> 55 <sup>m</sup>	+27° 1′
Jan.	1	49.077 286	9.42	8.347 280	68.02	23.00	56.55 70	21.580 279	42.26 280
	II	49.363	11.24 178	8.627	65.91 201	23.00 <sub>56</sub> 23.56 <sub>50</sub>	55.76 79	21.859 306	39.46 252
	21	49.667 316	13.02 168	0.420	63.90	24.15 62	EF AT		36.94 216
	31	49.983 318	14.70	9.240	62.08	24.78 64	55.48	22.488 323	34.78
Febr.	10	50.301 313	16.22	9.556 311	60.49 129	25.42 64	55.97 88	22.819 331	33.06
	- 1						00	330	3
Mr:	20	50.614 303	17.52	9.867 302	59.20 97	26.06 62	56.85 126	23.149 323	31.83 71
März	2	50.917 288	18.59 79	10.169 286	58.23 62	26.68 59	58.11 158	23.472 307	31.12 17
	12	51.205 269	19.38	·10.455 268	57.61 27	41.41 -6	59.69 187	23.779 287	30.95 34
A	22	51.474 246	19.89 24	10.723 245	57.34 7	27.83 52	61.56 211	24.066 263	31.29 83
April	I	51.720 224	20.13 -	10.968 222	57.41 36	28.35 47	63.67 232	24.329 235	32.12 125
	II	51.944 199	20.12	11.190 197	57.77 63	28.82	65.99 247	24.564 206	33-37 161
	21	52.143	TO.00	11.387 .60	58.40 84	29.23	68.46 257	24.770 173	34.98
Mai	I	52.315	19.49 56	11.556	59.24	29.50 20	71.03 264	24.943	36.88
	11	52.460 116	18.93 66	11.698	60.24	29.87	73.67 265	25.083	38.98
	20*)	52.576 86	18.27 73	2011.810 82	61.35	30.09 15	76.32 261	25.188 69	41.19 224
	20	52.662		Service of the servic				22	
Juni	30	- 55	17.54 75	11.892 51	62.52	30.24 7	78.93 <sub>251</sub>	25.257 34 25.291 3	43.43 221
Juin	9	52.717 24	16.79 76	11.943 20	63.69	30.31	81.44 236	25.288 3	45.64 209
	19	52.741 8	16.03 73	11.963 -	64.84 108	30.31 8	83.80 214	25.251 37	47.73 192
Juli	29	52.733 39 52.694 68	15.30 67	11.951 43	65.92 98	30.23 15	85.94 188	25.251 71	49.65 169
Juli	9	52.094 68	14.63 62	1-	85	30.08 22	87.82	103	51.34 143
31	19	52.626	14.01	11.837 <sub>98</sub>	67.75 72	29.86 27	89.39 121	25.077 131	52.77 112
	29	52.531 117	13.48 53 45	11.739 121	68.47	20.50	90.60 81	24.946 156	53.89 80
Aug.	8	52.414 136	13.03 35	11.618 138	69.02 39	29.20 26	91.41 38	24.790	54.69 44
	18	52.278	12.68	11.480	69.41 20	20.90 28	91.79 -6	24.616	55.13 8
	28	52.131 150	12.44 12	11.330	69.61 r	28.52 39	91.73 51	24.430 190	55.21 = 29
Sept.	7	51.981	12.32	11.176 149	69.62		91.22	24.240 186	54.00
Sopt.	17	51.834 133	T2 22	11.027 136	69.43	28.13 27.76 34	00 20 93	24.054	54.92 67 54.25 105
	27	51.701 110	12.49	TO XOT	60.02	27.42 34	88 06 133	1 22 XXO	F2 20
Okt.	7	51.591 70	12.80	TO ##6	68 10	27.14 28	00	22 720 131	CT 78
	17	ET ET2 /9	12 20 50	TO 602	67.54	26.92	87.28 196 85.32 216	23.609 81	LEO OT
		31.312 41	13.30 69	40				-3. 9 8r	210
	27	51.471 4	13.99 89	10.646 2	66.44	26.78 3	83.16	23.528 35	47.91 241
Nov.	6	51.475 53	14.88	10.644 =	105.11	26.75 -7	80.89	23.493 16	45.50 267
	16	51.528	15.98 130	10.691	1 0.3.70	20.02	78.61	23.509 70	42.83 288
	26	51.631	17.28	10.787	101.00	20.99 27	70.42	23.579 122	39.95 301
Dez.	6	51.783 198	18.77 164	10.932	59.87 206	27.26 37	74.41 175	23.702	36.94 308
	16	51.981 238	20.41	11.124 232	57.81	27.63 46	72.66	23.876 220	33.86
	26	52.219 272	22.16 181	11.356 266	55.67 214	28.09 52	71.23 104	24.096 261	30.81 292
	36	52.491	23.97	11.622	53.53	28.61	70.19	24.357	27.89
-	200	0 1)-	1 0 71		1 30 30	The state of the	1		
Mittl		51.061	9.95	10.277	69.42	27.10	69.11	23.470	48.63
sec δ,		1.002	-0.057	1.003	+0.081	2.223	-1.985	1.123	+0.510
	a'	+3.1	-11.0	+3.0	-ro.9	+5.3	-10.7	+2.5	-10.4
<i>b</i> ,	b'	0.00	+ 0.84	0.00	+ 0.84	+0.07	+ 0.84	-0.02	+ 0.86

<sup>\*)</sup> Bei Stern 593) lies Mai 21.

Ta	œ	594) 8	Scorpii	598) & D	raconis	597) β Sc	orpii pr	603) 8 OI	phiuchi
14	ъ.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
192	47	15 <sup>h</sup> 57 <sup>m</sup>	-22°28′	16 <sup>h</sup> o <sup>m</sup>	+58°41'	16 <sup>h</sup> 2 <sup>m</sup>	-19°39′	16 <sup>h</sup> 11 <sup>m</sup>	-3° 33′
Jan.	ı	9.412	16.22	51,212 262	71.51 221	18.801	39.31 105	31.816 260	33.89 173
-	II	0 300	17.17 95	FT FF4	68 20	TO 008 297	40.36	22.085	
	21	TO 044	18.24 116	5T 000	65 50	TO 416	41.51 120	22 277	37.33 161
	31	TO 282 339	19.40	52.447 482	63.26	TO 747	40 7T	20 684	28 04
Febr.	10	10.726 343	20.60 120	52.929 492	61.60	20.084 337	43.92 119	22 008 314	40.39 126
	20	11.066 331	27.80	53.421 487	60.50	20.418	45.11	22 211	AT 65
März	2	11.397 331	22.06		60 26 =	20.744 312	16 22	22.618	12.66
	12	11.713 297	24.05 100	51.276	60 6T 35	27 050	17 24	33.913 280	12.11
	22		25.05	E4 8T2 T3/	6T.50 98	2T 2FT -73	18 TA 90	34.193 262	12 88 4/
April	1	12.010 277 12.287 254	25.95 80	55.208 395	63.16 208	21.626 275	48.92 65	34.455 242	44.08 20
	11	12.541 228	26.75	55·55 <sup>1</sup> <sub>286</sub>	65.24 249	21.879 228	40.57	34.697 219	11.02
	21	12.769 202	27 15	55.837 224	67.73 281	22.107 203	50.10		1276
Mai	I	12.971 172	28.05	F6.06T	70.54 301		50.52	25 110	12.20
1 3	II	13.143 142	28.57	56.218	73.55 310	00 484 7	FO 86 34	25 277	12.70
	21	13.285 110	29.01	76 208 90	76.65 310	22 628 14	5T.T2	35.417 109	AT 00 71
		22	37	23 —		23 113	19.	2.0	41.99 77
	30	13.395 76	29.38	56.330 44	79.75 298	22.741 79	51.31 14	35.526 78	41.22 80
Juni	9	13.471 40	29.70 25	56.286 108	82.73	22.820	51.45 10	35.604 45	40.42 79
100	19	13.511 5	29.95 20	56.178 169	85.52	22.865	51.55 6	35.649	39.63 76
	29	13.516 -	30.15	56.009 224	88.03 217	22.875 =	51.61	35.660 =	38.87
Juli	9	13.486 65	30.29 7	55.785 274	90.20	22.849 60	51.62 3	35.638 54	38.16 64
	19	13.421 95	30.36	55.511 317	91.97 133	22.789 90	51.59 8	35.584 84	37.52 55
	29	13.326 93	30.36	55.194 351	93.30 85	22.699 118	51.51	35.500	36.97 46
Aug.	8	13.203	30.27	54.843 376	94.15 35	22.581 140	51.38	35.389 132	36.51 36
	18	13.059 158	30.10	54.467 391	94.50 = 16	22.441	51.20 23	35.257 147	36.15 25
1	28	12.901 164	29.86	54.076 395	94.34 67	22.286 161	50.97 27	35.110 156	35.90 13
Sept.	7	12.737 160	29.55 27	53.681 386	93.67 118	22.125 159	50.70 30	34-954 154	35.77 1
	17	12.577	29.18 37	53.295 365	92.49 168	21.966	50.40 32	34.800	35.76 -
	27	12.430	28.77	52.930 331	90.81	21.820	50.08 30	34.655 126	35.90 20
Okt.	7	12.307 90	28.35 39	52.599 285	88.67	21.695 02	49.78 25	34.529 97	36.19 46
	17	12.217 49	27.96 32	52.314 227	86.09 297	21.603 52	49.53 18	34.432 61	36.65 64
	27	12.168	27.64 23	52.087 158	83.12	21.551 5	49.35 6	34.371 19	37:29 83
Nov.	6	12.168 52	27.41 8	51.929 81	19.02 200	21.546 46	49.29 -	34.352 =	38.12 103
	16	12.220	27.33	51.848 -	76.25	21.592	49.37 25	34.381	39.15
	26	12.327	27.42 27	51.849 86	172.5T -	21.692	49.62	34.460	40.37 139
Dez.	6	12.488 210	27.69 47	51.935 170	68.68 383	21.844 201	50.05 62	34.589 176	41.76
	16	12.698 254	28.16	52.105 249	64.87	22.045 245	50.67 80	34.765 218	43.31 166
No service	26	12.952 290	28.83	52.354 222	01.19 342	22.290 282	51.47 96	34.983 254	44.97 172
1975	36	13.242	29.68	52.677	57.77	22.572	52.43	35.237	46.69
Mittl	l. Ort	11.681	20.79	53.464	82.49	21.044	42.99	33.896	33.66
	, tg δ	1.082	-0.414	1.925	+1.645	1.062	-o.357	1.002	-0.062
	a'	+3.5	-10.2	+1.2	-10.0	+3.5	-9.8	+3.1	-9.1
	b'	+0.01	+ 0.86	-0.05	+ 0.87	+0.01	+0.87	0.00	+0.89

		606) 19 U	rsae min.	605) E O	phiuchi	604) γ <sup>2</sup>	Normae	608) τ H	erculis
Та	Lg	AR.	Dekl	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
19	47	16 <sup>h</sup> 12 <sup>m</sup>	+76° o'	16 <sup>h</sup> 15 <sup>m</sup>	-4° 33′	16 <sup>h</sup> 15 <sup>m</sup>	-50° 1′	16 <sup>h</sup> 18 <sup>m</sup>	+46° 25′
Jan.	I	14.62	30.91 318	28.722 267	53.36 168	48.619 393	30.63	6.610 289	70.13 324
	II	15.21 73	21.13 206	28.080	55.04 .65	49.012 429	30.12 20	6.899 330	00.80
	21	15.94 0-	24.97 222	20.280	56.69 766	49.441	29.92 =	1.229 261	64.01 243
	31	16.77	22.75 161	29.700	58.25	49.894 465	30.04 42	7.590 382	01.50
Febr.	10	17.00 95	21.14 96	29.900 314	59.68 143	50.359 468	30.46 70	7.972 391	59.69 130
	20	18.63 96	20.18 28	30.214 208	60.91 100	50.827 460	31.16 95	8.363 389	58.39 67
März	2	19.59	19.90 40	30.522	61.91	51.287	32.11	0.752 378	57.72 2
	12	20.52 00	20.30 105	30.819 283	62.65 48	51.734	33.28	9.130 358	57.70 61
154-017	22	21.40 79	21.35 163	31.102 265	63.13 22	52.161 401	34.64 152	9.488 220	58.31 119
Apri	40%	22.19 68.	22.98 214	31.367 245	63.35 -	52.502 372	36.16 166	9.818 297	59.50 170
	II	22.87 56	25.12 256	31.612 223	63.33 24	52.934 338	37.82	10.115 258	61.20 214
35.	21	23.43 AT	27.00 00-	31.835 198	63.09 42	53.272 200	39.58	10.373 215	03.34
Mai	1	23.84 26	30.55	32.033 172	62.67 57	53.572 250	41.42 189	10.588	65.83 274
	II	24.10 11	33.02 216	32.205 144	62.10 66	53.831 214	43.3F 191	10.758	68.57 288
	21	24.21 - 5	36.78 315	32.349 115	61.44 73	54.045 165	45.22 189	10.880 72	71.45 293
	30	24.16 20	39.93 303	32.464 82	60.71 76	54.210 114	47.11 185	10.952 23	74.38 287
Juni	9	23.96	42.90	32.546 49	59-95 76	54.324 60	48.96	10.975 =	77.25 204
	19	23.02 48	45.79 254	32.595 16	59.19 72	54.384	50.71 163	10.949 74	79.99 253
The Party of the P	29	23.14 60	48.33	32.611 -	58.47 68	54.389 48	52.34 146	10.875	82.52
Juli	9	22.54 70	50.52 178	32.592 51	57·79 61	54.341 100	53.80 125	10.750 161	84.76 190
	19	21.84 79	52.30 132	32.54I 82	57.18 54	54.241 148	55.05 100	10.595 199	86.66
	29	21.05 96	53.62 83	32.459 too	56.64	54.093 180	56.05	10.396	88.17
Aug.	8	20.19	54.45 33	32.350	56.20 26	53.904	56.76	10.105 266	89.26 64
	18	19.27	54.78	32.220	55.84 25	53.681 246	57.17 8	9.909	89.90 17
	28	10.33 94	54.58 71	32.073 156	55.59 14	53.435 257	57.25 26	9.635 281	90.07 =
Sept.	7	17.39 93	53.87 123	31.917 155	55.45 3	53.178 255	56.99 59	9.354 280	89.76
	17	10.40 80	52.04	31.702	55.42 =	52.923 220	56.40 80	9.074	88.97
	27	15.57 %	50.92 218	31.616	55.52 25	52.684 208	55.51	8.806	87.70
Okt.	7	14.74	48.74 262	31.488 100	55.77 40	52.476 162	54.34 .28	8.502	85.97 216
	17	14.00 62	46.12 301	31.388 64	56.17 58	52.313 107	52.96	8.351 167	83.81 257
	27	13.38 50 12.88 35	43.11 39.78 36.19 36.19 376	31.324 21	56.75 77	52.206 42	51.41 164	8.184	81.24 293
Nov.	6	12.88	39.78 350	31.303 =	57.52	$52.164 \frac{42}{31}$	49.77 165	8.070	78.31
	16	12.53 18	36.19 376	31.330 76	58.47	52.195 107	48.12	0.010	1 /5.09 24"
	26	12.35	1.54.4.5 .0.	31.406	59.62	52.302	40.54	8.025	71.04 260
Dez.	6	12.34 16	28.59 380	31.532 173	00.94	52.483 252	45.09 125	8.100 75	364
	16	12.50	24.79 366	31.705 216	62.41	52.735 316	43.84 100	8.241 203	64.40 358
	26	12.84 50	21.13 340	31.921 252	04.00	53.051 37° 53.421	42.84 71	8.444 250	00.02 340
	36	13.34	17.73	32.173	65.66	53.421	42.13	8.703	57.42
	. Ort	18.31	42.55	30.825	53.21	51.839	39.09	8.715	79.31
sec 8	, tgδ	4.137	+4.014	1.003	-o.o8o	1.557	-1.193	1.451	+1.052
a,	a'	-1.7	-9.1	+3.2	-8.8	+4.5	-8.8	+1.8	-8.6
<i>b</i> ,	b'	-0.12	+0.89	0.00	+0.90	+0.03	+0.90	-0.03	+0.90

3 1			-/1/-		100	1130	3-77	San Barrier	15/34 -1/1
Ta	. ~	609) y I	Herculis	611) Y	Apodis	616) a s	Scorpii	618) β E	<b>Ierc</b> ulis
4.8	8	AR.	Dekl.	AR.	Dekl	AR.	Dekl.	AR.	Deki.
19	47	16 <sup>h</sup> 19 <sup>m</sup>	+19° 16′	16 <sup>h</sup> 25 <sup>m</sup>	-78° 46′	16 <sup>h</sup> 26 <sup>m</sup>	-26° 18′	16 <sup>h</sup> 27 <sup>m</sup>	+21° 35′
Jan.	1	32.807 256	29.81 261	6.05 106	45.27 177	6.754 292	54.34 57	54-353 250	68.34 270
	11	33.063	27.20 241	7.11	12 50	7.046 320	54.91 71	54.603 279	65.64 249
	21	33.346 303	24.79 213	8.30 119	12 16 134		55.62 82	54.882 299	63.15 219
	31		22.00	9.59 135	AT 20	7 702	56.44 89	55.181 299	
Febr.	10	22 062 323	20.89 177	10.94 139	40 DT =	8.049 349	57.33 94	55.493 317	59.14 139
	100	3			10	349			
250	20	34.278 312	19.54 89	12.33 139	41.01 58	8.398	58.27 94	55.810 314	57.75 92
März	2	34.590 302	18.65 41	13.72 126	41.59 104	0./42 224	59.21	50.124 206	56.83 42
	12	34.892 287	$18.24 \frac{1}{6}$	15.08	42.63	9.070	60.13 87	56.430 202	56.41 -8
	22	35.179 268	18.30 51	16.40	44.08	9.397 303	61.00 82	56.723 275	56.49 55
April	I	35.447 246	18.81 92	17.63 114	45.92 218	9.700 283	61.82 76	56.998 253	57.04 97
	II	35.693 222	19.73 127	18.77 102	48.10 248	9.983 261	62.58	57.251 229	58.01
-7-11	21	35.915 194	21.00	19.79 89	50.58 272	10.244	62.58 63.28 65	57.480 201	59.36 165
Mai	I	36.109 164	22.56 178	20.68	53.30	10.480	03.93 6-	57.681	01.01
	II	36.273 133	24.34	21.42 74	56.20 304	10.087	64.53	57.853 139	62.89
	21	36.406	26.25 199	22.00 40	59.24 309	10.864 177	65.09 52	57.992 106	64.92 211
	-	28		29		124	6-6-	30	The second second
Juni	30	36.506 65	28.24 198	22.40 22 22.62	62.33 308	11.007 108	65.61 49	58.098 71 58.169 71	67.03 211
aum	9	36.571 31	30.22 191	4	65.41 301	11.115 70	66.10 45	58.204 35	69.14 204
	19	36.602 = 5	32.13 179	22.66 -	1 00.42 285	11.185 31	66.55 40	58.202	71.18 192
Juli	29	36.597 40	33.92 162	22.51 33	71.27 262	11.216 8	66.95 35	58.165 37	73.10 174
Juit	9	36.557 74	35.54 141	22.18 50	73.89 233	11.208 46	67.30 29	50.105 73	74.84 152.
	19	36.483 104	36.95	21.68 65	76.22	11.162 83	67.59 20	58.092 105	76.36 126
	29	36.379	38.12 89	21.03 78	78.17	11.079	67.79 12	57.987	77.62 08
Aug.	8	36.248	39.01 60	20.25 88	79.70 105	10.964	67.91 2	57.854 157	78.60 67
	18	36.094 169	39.61 29	19.37 96	80.75 53	10.823	67.93	57.097	79.27 24
	28	35.925 178	39.90 -	18.41 98	81.28 =	10.661	67.84 19	57.523 184	79.61
Sept.	7	35.747 179	30.87	17.43 08	81.27	10.488	67.65 29	57·339 <sub>186</sub>	79.62
op	17	25 568	20 50	1645	80.72 55	10.314 165	67.36	57.153 178	70 20 33
	27	25 208	28.84	TE 52	79.64	10.149 146	67.36 38 66.98 44	56.975 161	78 60
Okt.	7	25 216	0-	T4.70	78.07 201	10.003	00.54	56.814 135	77.57 137
	17	35.122 89	37.82 36.48 165	T4.00	76.06 237	0.888	66.06 48	56.679 100	76.20 170
				53		/5		-	1,0
N	27	35.033 47	34.83 195	13.47 33	73.69 264	9.813 29	65.60 42	56.579 58	74-50 201
Nov.	6	34.986 7	32.88	13.14 11	71.05 280	9.784 = 24	05.10	56.521 11	72.49 229
	16	34.987 51	30.67 244	13.03 -	68.25 285	9.808 80	64.84 21	56.510 40	70.20 252
Dez.	26	35.038 102	20.23 261	13.15 35	05.40	9.888	64.63 6	56.550 91	67.68 269
Dez.	6	35.140 152	25.62 272	13.50 57	62.60 263	10.023 187	64.57	56.641 142	64.99 281
	16	35.292 198	22.90 274	14.07 78	59.97 237	10.210 235	64.68 28	56.783 188	62.18 283
	26	35.490 237	20.16 269	T4.85	57.60 203	10.445 275	64.96 46	56.971 230	59.35 277
	36	35.727	17.47	15.82 97	55.57	10.720	65.42	57.201	56.58
M:+41	- Ort	Charles .	04.56		37 7-3	0.000	C7 08	r6 267	72 72
	tg δ	34.794	34.76	15.15	55.96	9.208 1.116	57.98	56.367 1.076	73·73 +0.396
	a'	1.059	+0.350 -8.5	5.140	-5.042 -8.1	THE RESERVE OF THE PARTY OF THE	-0.495 -8.0	+2.6	<b>−7.8</b>
	b'	+2.7		+9.2 +0.14		+3.7 +0.01	+0.92	_o.oi	+0.92
,		-0.0I	+0.91	1 -0.14	+0.92	0.01	. 0.92	10,25 , 236	400

619) A Draconis				Sell-Burn's			N 3 150 -		
Та	g .	619) A D		1432) Pi 16 <sup>b</sup>		621) o F	Ier <b>c</b> ulis	622) ζ O <sub>I</sub>	phiuchi
		AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
194	17	16 <sup>h</sup> 28 <sup>m</sup>	+68° 52′	16 <sup>h</sup> 31 <sup>m</sup>	+60° 55′	16 <sup>h</sup> 32 <sup>m</sup>	+42° 32′	16 <sup>h</sup> 34 <sup>m</sup>	-10° 27′
Jan.	I	1.55 40	47.51 336	37.82	51.89 340	21.406 263	34.96 <sub>324</sub>	11.999 260	40.62
	II	1.95	44.15 297	30.13 20		21.660	31./2 202	12.259 286	41.94 135
	21	2.44.	41.18	38.54	45.46 255	21.074	28.80	12.545	43.29 131
	31	3.01 62	38.71 ,88	38.99 48	42.91 255	22.309 246	26.29	12.049	44.00
Febr.	10	3.63 66	36.83	39-47 51	40.92	22.665 368	24.29 144	13.163 317	45.83 110
					100000000000000000000000000000000000000		22.85 82		
März	20	4.29 66	35.59 56	39.98 51	39.57 68	23.033 369	22.05 83	13.480 314	46.93 94
Marz		4.95 66	35.03 -	40.49 51	38.89	23.402 361	21.82	13.794 306	47.87 75
	12 22	5.61 62	35.16 78	41.00 48	38.89 67	23.763 346		14.100 295	54
Annil	I	6.23 57	35.94 141	41.48 45	39.56	24.109 323	22.24 100	14.395 280	49.16 33
April	-	6.80 57	37.35 196	41.93 40	40.85 185	24.432 295	23.24 152	14.675 262	49.49 14
	11	7-31 43	39.31 241	42.33 35	42.70 231	24.727 262	24.76	14.937 242	49.63
	21	7.14 05	41.72 278	42.00 00	45.01 269	24.989	20.74	15.179 219	49.59 18
Mai	I	0.09.24	44.50 303	42.96	47.70 296	25.213 183	29.08 262	15.398	49.41 31
	II	8.33	47.53 317	43.18	50.66	25.396	31.70	15.592 166	49.10 39
	21	8.48 4	50.70 321	43.32 7	53.79 318	25.536 94	34.48 286	15.758 136	48.71 44
	30*)	8.52				07 600		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	48.27
Juni		8.47 16	53.91 314	43.39	56.97 313	3125 678	37.34 284	15.894 104 15.998 70	17 80 4/
Jun	9	8.31	57.05 298	<sup>31</sup> 43·39 8	63.09	25 680 -	40.18	16.068 70	17 22
	29	8 06	60.03 273 62.76 242	43.31 14	6-86	25.635 45	42.92 255	16.102 34	47·3 <sup>2</sup> 46 46.86 43
Juli	9	7 72 34	65 18	43.17 21 42.96 27	68 22 247	25.035 90	45.47 230	16.099 3	46.43
o an	9	7.72 41	204		68.33 210	25.545 131	47.77 199	37	40.43 40
	19	7.3I 48	67.22 161	42.69 32	70.43 169	25.414 170	49.76 163	16.062	46.03 35
	29	0.03 53	68.83	42.37 37	72.12	25.244 202	51.39 124	15.991	45.68 31
Aug.	8	0.30 58	69.96 64	42.00	73.36 75	25.042	52.63 80	15.890 127	45.37 26
	18	5.72 61	70.60 13	41.59	74.11 24	24.812	53.43 36	15.763 146	45.11 21
	28	5.11 62	70.73 40	41.17 44	74.35 =	24.562 260	53.79 To	15.617 158	44.90 16
Sept.	7	4.49 62	70.33	40.73 44	74.08	24.302 262	53.69 68	15.459 160	44.74
	17	3.87 59	60 AT	40.29 43	73.29 79	24.040	53.09 <sub>58</sub> <sub>53.11 <sub>104</sub></sub>	15.299	1161
	27	3.28 59	67.08 143		71.99 180	23.787 253	52.07	15.145 138	1160 -
Okt.	7	2.72	66.06	39.47 39	70.19 227	23.553 204	I FO FX	TF 007	44.68 6
	17	2 22	63.67 281	39.11 30	67.92 270	23.349 164	48.64 234	14.895	44.84 28
	3/6	43			270	104			20
NT	27	1.79 34	60.86	38.81	65.22 308	23.185 116	46.30 271	14.818 35	45.12 42
· Nov.	6	1.45 24	57.69 348	38.58	02.14	1 23.009 6-	1 43.59	1 14.703	45.54 58
	16	1.21	54.21 370	30.42 7	363		40.50 220	1 14.193 62	46.12 46.86 91
Dan	26	1.08 1	50.51 383	38.35 -	1 55.11	23.00/ 6	131.21 245	1 14.05/ 112	46.86 91
Dez.	6	1.07 -	46.68 384	38.37 11	51.32 384	23.068	33.82 343	14.970 161	47.77 106
	16	1.18 23	42.84	38.48 19	47.48 376		30.29 351	15.131 205	48.83 118
	26	1.41	42.84 39.08 355	28 67	43.72 370	23.372 235	26.78 351	15.336 243	50.01 128
	36	1.41 1.74 33	35·53 355	38.95	43.72 357	23.607	23.40	15.579	51.29
	of the same	5.587 (1.9	2000	ed all equals		The second second			
	l. Ort	4.53	58.24	40.36	62.03	23.527	43.34	14.226	40.89
	$\delta$ , tg $\delta$	2.776	+2.589	2.058	+1.799	1.357	+0.918	1.017	-o.185
	a'	-o.i	<b>−7.8</b>	+0.8	<b>-7.5</b>	+1.9	<b>−7.5</b>	+3.3	<b>-7.3</b>
ь,	0	I —o.o7	+0.92	1 -0.05	+0.93	<del>-0.02</del>	+0.93	0.00	+0.93
	b'	—o.o <sub>7</sub>	+0.92	-0.05	+0.93	-0.02	+0.93	0.00	+0.93

<sup>\*)</sup> Bei Stern 1432), 621) und 622) lies Mai 31.

m		626) η I	Herculis	625) α Tria	ng. austr.	627) Grb 23	77 Draco	628) E S	Scorpii
Ta	ıg	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
19.	47	16 <sup>h</sup> 41 <sup>m</sup>	+39° o'	16 <sup>h</sup> 42 <sup>m</sup>	-68° 55'	16 <sup>h</sup> 44 <sup>m</sup>	+56° 52′	16h 46m	-34° 11′
Jan.		8 404	77.77	r6 r6	51.90 ,62	# TA 7778	24,08	10.900	
Jan.	I	2.494 <sub>248</sub>	71.57 320	56.56 <sub>58</sub>	50.28	14.778 285	24.28 20.82 345	40.833 294	52.24 2
	21	2.742 <sub>288</sub> 3.030 <sub>210</sub>	68.37 292	57.14 66 57.80	40.00	15.063 345 15.408 394	20.03 211	41.127 327	52.26
	31	2 240	65.45 253 62.92 206	57.80 72 58.52	48.T8	15.802 394	17.72 266 15.06 213	41.454 349 41.803 264	52.45 36 52.81 50
Febr.	10	2 688 339	60.86	58.52 77 59.29 78	1771 44	16.233 455	12.93	42.567	
		33.	151		- H1.14 I	10.233 .455	12.93 151	42.167 370	53-31 61
3.f.:	20	4.039 354	59.35 92	60.07 78	47-73 39	16.688 463	11.42 85	42.537 370	53.92 71
März	2	4.393 348	58.43 31	00.05 _0	48.12 78	17.151	10.57 18	42.907 363	54.63 77
	12	4.741 336	58.12 = 31	61.63 76	48.90 114	17.010	10.39 48	43.270 353	55.40 8r
Anvil	22	5.077 316	58.41 86	62.39 72	50.04 148	10.054	10.87	43.623 337	56.21 86
April	I	5.393 291	59.27 139	63.11 67	51.52 178	18.470 379	11.99 168	43.960 319	57.07 85
	11	5.684 261	60.66 185	63.78 62	53.30 205	18.849 333	13.67 218	44.279 298	57.92 88
35 .	21	5.945 227	02.51	64.40 64.95 48	55.35 227	19.102 00.	15.85	44.577 200	58.80 90
Mai	Ι	6.172 190	64.72 250	64.95 48	57.62 245	19.463 223	18.42 288	44.849 243	50.70
	II	6.362	07.22	65.43 40	00.07	19.686 162	21.30 306	45.092 211	00.00
	21	6.512 108	69.90 277	65.83 31	02.05 267	19.848 98	24.36 316	45.303 175	01.51 91
	31	6.620 63	72.67 278	66.14 21	65.32 268	19.946 32	27.52 314	45.478	62.42 90
Juni	9	6.683 19	75.45 260	66.35	68.00	19.978 =	30.00 204	45.615 94	03.32.88
	19	6.702	78.14 252	66.46	70.04	19.946	33.70 284	45.709 51	64.20 84
	29	6.677 69	80.00	$66.48 \frac{2}{9}$	13.10 236	19.850	36.54 257	45.760	65.04
Juli	9	6.608	82.96 201	66.39 19	75.54 213	19.693 212	39.11 223	$45.767 \frac{6}{37}$	65.82 69
	19	6.498 148	84.97 167	66.20 28	77.67 183	19.481 264	41.34 185	45.730 70	66.51
	29	6.350 182	86.64	65.92 36 65.56	79.50 147	19.217 308	43.19 141	45.651 79	67.10 46
Aug.	8	6.168	87.93 89	65.56	80.97 106	18.909	44.60 94	45.534	101.30
	18	5.958 221	88.82 46	65.14	82.03 62	18.566	45.54 45	45.384	67.86
	28	5.727 243	89.28	64.67 47	82.65 15	18.197 385	45.99 6	45.210	$67.99 \frac{3}{4}$
Sept.	7	5.484 246	89.29		82.80	T# 8T0	45.93	45.019 196	67.95 23
	17	5.238 239	88.85	64.16 63.66 63.75	82.46 82	17.424 378	45.36	44.823	67.72
	27	4.999 223	87.96	03.17	81.64 126	17.046 376	44.28 158	44.633	67.33 55
Okt.	7	4.776	80.02	02.73 28	80.38	16.690 321	42.70 206	44.461 143	66.78 66
	17	4.581 158	84.85 218	62.35 29	78.71 200	16.369 274	40.64 251	44.318 103	66.12 75
As le la	27	4.423 113	82.67	62.06	76.71 <sub>226</sub>	16.095 215	38.13 291	44.215	65.37 78
Nov.	6	4.310 61	00.12 288	01.87 6	74.45 242	15.880	35.22		64.59 77
	16	4.249	77-24 314	61.81 -6	72.03 250	15.733 72	35.22 31.98 352	44.161 59	63.82
	26	4.245 =6	74.10 332	61.87	69.53 246	15.661 -8	28.46 370	44.220	63.11
Dez.	6	4.301	70.78 343	62.06 31	67.07 234	15.669 89	24.76 377	44-339 176	62.51 46
(AT)	16	4.415 170	67.35 342	62.37 43	64.73	15.758 168	20.99 375	44.515 229	62.05 29
	26	4.585	63.93 342	62.80	62.61 185	15.926	1/.24 260	44.744	61.76
	36	4.807	60.61	62.80 <sup>43</sup> 63.34	60.76	16.169 243	13.64	45.018	61.65
Mittl	l. Ort	4.615	79-35	62.00	60.02	17.238	33.68	43.550	55.80
	$tg \delta$	1.287	+0.810	2.782	-2.596	1.830	+1.533	1.209	-o.68o
	a'	+2.1	-6.8	+6.3	-6.6	+1.1	-6.5	+3.9	-6.3
	b'	-0.02	+0.94	+0.06	+0.94	-0.03	+0.95	+0.01	+0.95
		12-1 17 37 2 3	Branch to	THE SAME SHE	the state of the s	1 10 10 10	- 10 - 10	Comment of the	

		629) 49	Herculis	1444) 24	G. Arae	631) Ç	Arae	633) и О	phiuchi
Ta	ıg	AR.	DekL	AR.	Dekl	AR.	DekL	AR.	Dekl
19.	47	16 <sup>h</sup> 49 <sup>m</sup>	+15° 3′	16 <sup>h</sup> 54 <sup>m</sup>	-50° 33′	16 <sup>h</sup> 54 <sup>m</sup>	-55° 54'	16 <sup>h</sup> 55 <sup>m</sup>	+9° 27′
Jan.	I	37.842	37.87 246	8.625 8.082 357	29.39	9.711 394	25.66	7.318 227	17.91 222
	II	38.073 261	35.41 230	0.402	28.48 64	10.105 444	24.50 87	7.545	15.69 210
	21	38.334 282	33.11	U. 40 4	27.84 36	10.540	23.63 56	7.802	13.59 191
	31	38.617 208	31.03 .78	I G'OTO	27.48 8	11.030	23.07	0.001	11.68 166
Febr.	10	38.915 305	29.25 140	10.2/1 467	27.40 18	11.53/ 522	22.83 -6	0.374 301	10.02 135
	20	39.220	27.85 99	10.738 470	27.58 44	12.059 525	22.89 37	8.675 303	8.67 98
März	2	39.52/ 202	20.80		28.02 66	12.504	23.26 65	8.978 300	7.69 59
	12	39.029 202	20.31	11.072	28.68 88	13.105	23.91	8.978 <sub>300</sub> 9.278 <sub>291</sub>	7.10 19
	22	40.122	26.20 -	14.147	29.56	13.012 .00	24.82	9.509 200	6.91 =
April	I	40.402 262	26.53 73	12.501 413	30.63	14.100 462	25.97 137	9.047 263	7.11 56
	II	40.664 241	27.26 108	12.974 386	31.86	14.562 431	27.34 156	10.110	7.67 88
	21	40.905	28.34 ,28	1.5.500	33.25 152	14.993 200	28.90	10.354	8.55 115
Mai	I	41.124 192	29.72 161	1.3./1.4	34.77 162	15.305	30.02 .06	10.577	9.70 136
	11	41.316 163	31.33 176	14.027	36.40	15.734	32.48 106	10.774 170	11.06
7 2	21	41.479 131	33.09 186	14.299 224	38.11	10.034 245	34.44 203	10.944	12.57 159
	31	41.610 98	34.95 188	5 14.523 173	39.88 178	16.279 185	36.47 206	6 11.084 107	14.16 163
Juni	9	41.708 62	36.83	14.090	41.00	10.404	38.53	11.191 72	15.79 160
	19	41.770 25	38.68	14.813	43.43 171	10.587 48	40.57	11.263	17.39
	29	41.795 11	40.44	14.873	45.14 161	10.045	42.54 180	11.298	18.91
Juli	9	41.784 47	42.05	$14.874 \frac{1}{56}$	46.75 145	16.636 74	44.39 169	11.298 37	20.32 126
	19	41.737 81	43-49 123	14.818	48.20 127	16.562	46.08 146	11.261 72	21.58 108
	29	41.656	44.72 99	14.707	49.47	10.420	47.54	11.189 102	22.66 88
Aug.	8	41.543	45.71 72	14.546	50.49 76	10.234	48.74 89	11.080	23.54 66
	18	41.404 ,60	46.44	14.342	51.25 45	15.995 275	49.63	10.950	24.20
	28	41.244 173	46.89 17	14.105 258	51.70	15.720 299	50.16	10.804 166	24.64 19
Sept.	7	41.071 178	47.06	13.847 266	51.82	15.421 308	50.33 21	10.638	24.83
	17	40.893	46.94	13.581	51.61 54	15.113	50.12	10.400	24.78
0.7	27	40.710	46.51 72	13.322	51.07 85	14.814	49.53	10.297	24.47 57
Okt.	7	40.558	45.78	T 2.084	50.22	14.538 225	48.58	10.141	23.90 84
	17	40.420 106	44.74 133	12.882	49.10 135	14.303 180	47.32 153	10.006 104	23.06 109
	27	40.314 68	43.41 162	12.730 91	47.75 151	14.123	45.79 173	9.902 66	21.97 135
Nov.	6	40.246 23	41.79 189	T2.620	40.24 161	14.012 33	44.06 186	9.836 22	20.02 160
	16	40.223 76	39.90	T2.616 -	44.63 162	1 12 070	42,20	9.814 =	19.02
-	26	40.249 76	37.78 231	12.000	43.00	14.028	40.30 186	9.840 75	17.20
Dez.	6	40.325 124	35.47 244	12.790 200	41.42 146	14.102 217	38.44 176	9.915 123	15.21 214
	16	40.449 170	33.03 251	12.996 268	39.96 129	14.379 293	36.68 158	10.038 168	13.07 223
	26	40.619	30.52 250	13.264 329	38.67	14.672 362	35.10	10.200	10.84 223
1	36	40.830	28.02	13.593	37.60	15.034	33.76	10.414	8.61
	Ort	39.933	42.34	12.053	34.53	13.513	31.41	9.443	21.61
	, tg δ	1.036	+0.269	1.574	-1.216	1.784	-1.477	1.014	+0.167
	a'	+2.7	<b>-6.1</b>	+4.6	-5.7	+5.0	<b>−5.7</b>	+2.9	-5.6
<i>b</i> ,	<i>b'</i>	—o.oI	+0.95	+0.02	+0.96	+0.03	+0.96	0.00	+0.96

3575										
Ta	a or	634) e H	Ierculis	1449) 85 G.	Ophiuchi	639) ζ D	raconis	641) 8 I	Herculis -	
4 16	*δ	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	
19	47	16 <sup>h</sup> 58 <sup>m</sup>	+30° 59'	17 <sup>h</sup> 5 <sup>m</sup>	-17° 32′	17 <sup>h</sup> 8 <sup>m</sup>	+65° 46′	17 <sup>h</sup> 12 <sup>m</sup>	+24° 53'	
Jan.	I	13.451 224	65.32 302	7.590 245	26.14 81	34.61 28	38.47	49.012 208	55.67 283	
	11	13.675 267	62.30 281	7.835	26.95 06	34.89 37 35.26 45	34.90 227	49.220	52.84 266	
	21	13.036	59.49 248	8.110	27.81	35.26		49.464	50.18	
	31	14.225	57.01 206	8.407	28.70 06	35.11 00	28.78	49.730	47.79 202	
Febr.	10	14.535 323	54-95 159	8.719 321	29.50 82	30.21	26.44	50.029 306	45.76 160	
	20	14.858 228	53-36 106	9.040 323	30.38 72	36.76 <sub>58</sub>	24.70	50.335 212	44.16	
März	2	15.100 325	52.30	9.303	31.10 60	37.34 60	23.61 41	50.040	43.04 60	
	12	15.511	51.81 -	0.003	31.70 48 32.18 35	37.93	23.20 =	50.962 314	42.44 7	
	22	15.020	51,88 61	9.990 202	32.18	30.50 22	23.47	51.270	42.37 43	
April	I	16.131 284	52.49 112	10.299 289	32.53 21	39.05 51	24.40 153	51.567 282	42.80	
	II	16.415 260	53.61 156	10.588 272	32.74 11	39.56 45	25.93 206	51.849 263	43.71	
	21	16.675	55.17 102	10.860	32.85 1	40.01	27.99 250	52.112	45.05	
Mai	I	10.908	57.10	11.113	32.86 - 7	40.39	30.49 285	52.351	40.75	
	II	17.110 167	59.32 243	11.342 203	32.79	40.70 23	33-34 309	52.563 182	48.74	
	21	17.277	01.75 253	11.545 172	32.68	40.93 14	30.43 323	52.745 148	50.94 232	
	31	, 17.408 gr	64.28	8 11.717 140	32.54 14	41.07 5	39.66	52.893 112	53.26 238	
Juni	9*)	17.499 51	1 00.05	11.857 103	32.40	41.12		53.005	55.04	
	19	17.550 9	09.30	11.960 65	32.20	41.08	40.11 204	53.078 33	57.98	
	29	17.559 32	71.70 221	12.025 26	32.13	40.95 21	149.15 28-	53.111 8	00.23	
Juli	9	17.527 72	73.99 198	12.051 -	32.02 8	40.74 29	51.96 249	53.103 47	02.33 189	
	19	17-455 110	75.97 168	12.038	31.94 7	40.45 36	54.45 212	53.056 85	64.22 164	
	29	17.345	77.65	11.986 88	31.87 6	40.09 43 39.66 47	56.57	52.971	05.00	
Aug.	8	17.201	79.00	11.898 118	31.81 6	39.66	58.28 125	52.851 150	67.21	
	18	17.027	80.00 62	11.780	31.75 6	39.19	59.53 75	52.701	68.24 69	
	28	10.831 211	80.62	11.638 160	31.69 7	38.07 54	60.28 25	52.526 193	68.93 33	
Sept.	7	16.620 218	80.84	11.478 169	31.62 8	38.13 37.58 55	60.53 28	52.333 <sub>201</sub>	69.26	
	17	16.402	80.65	II.309 -4-	31.54 9	37.58 55	60.25 81	52.132	69.23	
	27	10.188	80.05	TT.T42	31.45 7	31.03 #2	59.44 122	51.932	68.82	
Okt.	7	15.980	79.03	10.988	31.38 5	30.50	58.12	51.742	68.03	
	17	15.807 146	77.61 181	10.855 100	31.33 1	30.01 43	56.30 230	51.571 141	66.86	
	27	15.661 106	75.80 217	10.755 60	31.32 5	35.58 37	54.00 273	51.430 104	65.34 187	
Nov.	6	15.555 59	73.63 250	10.605	31.37	35.21 20	51.27 311 48.16 343	51.326 60	03.47	
	16	15.490 7	71.13	10.681 =	31.52	34.92 19	48.16	51.266	61.28 246	
	26	15.489	100.30	10.717 0_	31.78 20	34.73 10		31.233 40	50.02 268	
Dez.	6	15.536 47	65.38 311	10.804 138	32.17 51	34.63 -	41.08 305	51.295 91	56.14 283	
	16	15.637	62.27 316	10.942 185	32.68 64	34.64 12	37·31 <sub>379</sub>	51.386 140	53.31 <sub>291</sub>	
	26	15.789 200	59.11 <sub>310</sub> 56.01	11.127 225	33·3 <sup>2</sup> 34·96 74	34.76 22	33.52 268	51.526 185	50.40 288	
	36	15.989	56.01	11.352	34.06	34.98	29.84	51.711	47.52	
	L Ort	15.579	71.89	9.998	26.06	37.66	47.32	51.161	61.43	
sec 8	, tg δ	1.167	+0.601	1.049	-0.316	2.438	+2.223	1.103	+0.464	
a,	a'	2.3	-5.3	+3.5	-4.8	+0.2	-4.5	+2.5	-4.I	
<i>b</i> ,	b'	—o.oı	+0.96	0.00	+0.97	—o.o3	+0.98	—o.oī	+0.98	

<sup>\*)</sup> Bei Stern 641) lies Juni 10.

643) π Herculis							F 4 (1) F 7-	The second	
Ta	g	643) π H	Ierculis	1454) Pi 17 <sup>1</sup>	68 Herc	644) 9 0		645) β	Arae
16-	0	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
19	47	17 <sup>h</sup> 13 <sup>m</sup>	+36° 51′	17 <sup>h</sup> 17 <sup>m</sup>	+18° 6′	·17 <sup>h</sup> 18 <sup>m</sup>	-24° 56′	17 <sup>h</sup> 20 <sup>m</sup>	-55° 28′
Jan.	r	9.736	57.19 320	56.433 205	31.86 <sub>257</sub>	42.528 245	54.34 31	49.419 355	52.75 138
	II	9.947 252	53.99 200	56.638	29.29	42.773 270	54.05	49.774	51.37 114
	21	10.199 287	51.00 265	56.876 265	26.87	43.052	55.00	50.183	50.23 86
	31	10.486	48.35 222	57.141 284	24.68	43.355 222	55.53 ==	50.636 453 484	49.37 +8
Febr.	10	10.798 330	46.12 173	57.425 298	22.79 151	43.677 332	56.05 53	51.120 505	48.79 29
	20	TT T28	44.39 117		21.28 109		56.58 52	51.625 516	48.50
März	2	339	12 00	57.723 <sub>304</sub> 58.027 <sub>304</sub>	20.19 62	44.009 337 44.346 337	57.10 48	52.141 518	48.40
	12	TT 808 341	1265	58.331 300	TOF7	44.683 337	57.10 48 57.58 44	E2 0E0	48.76
	22	12.144	1267	58.D2T	TO 42	45.015 323	58.02 44	52.172	10.20 33
April	1	12.467 305	43.27 115	58.922 278	TO 74	45.338 312	58.40 38	53.672 480	50.07 101
					/3			400	
	II	12.772 281	44.42 164	59.200 261	20.49 114	45.650 295	58.73 29	54.152 455	51.08 123
Mai	21	13.053 253	46.06 204	59.461 240	21.63	45.945 276	59.02 25	54.607 422	52.31 142
Mrai	I	13.306 221	48.10	59.701 215	23.10	46.221 254	59-27 22	55.029 383	53.73 159
	21	13.527 184	50.47 260	59.916 187	24.84 193	46.475 226	59.49 23	55.412 338	55·32 174 57.06 185
100	21	13.711 144	53.07 275	60.103 156	26.77 205	46.701 <sub>196</sub>	59.72 23	55.750 286	7
	31	13.855 102	55.82 279	60.259 122	28.82	46.897 161	59.95 24	56.036 229	58.91 193
Juni	10	13.957 58	58.0I	60.381 85	30.92 208	47.058	60.19	56.265	00.84
	19	14.015 13	01.30	60.466	33.00	47.181 83	60.45	56.432	02.81
	29	14.028 = 33	1 04.03	60.513 8	35.00	47.264 40	60.72	56.534 34	104.70
Juli	9	13.995 77	66.50 247	60.521 =	36.87 169	47.304 - 3	61.01 28	$56.568 \frac{31}{34}$	66.65
	19	13.918 118	68.73 192	60.490 60	38.56	47.301	61.29 27	56.534 100	68.42 161
	29	13.800	70.65 158	60.421 104	40.03 147	47.257 83	01.50	56.434 160	70.03
Aug.	8	13.643 189	72.23 120	00.317	4T.25	47.174	0T.80 a	56.274	71.42 110
166	18	13.454	72.42	00.183	42.20 65	47.056	61.98	56.061	72.52
	28	13.239 233	74.22 79	60.024 176	42.85	46.910 166	62.11 5	55.805 287	73.31 79
Sept.	77		CT		1		62.16		
ъсри.	7 17	13.006 <sub>242</sub> 12.764 <sub>242</sub>	74.59 7	59.848 <sub>186</sub> 59.662 <sub>186</sub>	$\begin{vmatrix} 43.19 & 3 \\ 43.22 & \frac{3}{21} \end{vmatrix}$	46.744 <sub>177</sub> 46.567 <sub>178</sub>	62.13 3	55.518 304	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
	27	12.704 242	74.52 52 74.00	FO 456	42 OT 3	46.389 167	62.02	55.214 304 54.910 288	72 51
Okt.	7	12.292 230	72.02	·	12 28	1 16 222	61.83	F1 622	72.84 101
	17	12.083 17.8	- F 60	59.290 158 59.140 131	41.32 96	46.076	61.59 27	54.367 207	71.83
5	MI NOW	3 178	103	7177		CONTRACTOR CONTRACTOR	The second second	The second second	
NI	27	11.905 138	69.79 223	59.009	40.03	45.962 74	61.32 27	54.160 145	70.51
Nov.	6	1 11.707	67.56 258	58.914 53	30.44 180	45.888 26	01.05	54.015 72	08.94
	16 26	11.077 37	04.90	58.861 53 58.861 5	36.55 214	45.862 =	60.80 19	53.943 7	67.20 184
Dez.	6	11.040 19	62.09 312	58.856 <del>3</del> 58.899 93	34.41 235	45.887 78	60.61	53.950 90	65.36 187
1002.		10.	58.97 327	93	32.06 251	45.965 131	60.51	54.040 172	63.49 182
	16	11.735 131	55.70 332 52.38 328 49.10	58.992 140	29.55 258	46.096 181	60.51	54.212 249	61.67
	26	11.866 183	52.38 328	59.132 183	26.97 260	46.277 224	60.62	54.461	59.96 153
	36	12.049	49.10	59.315	24.37	46.501	60.86	54.781	58.43
Mit+1	L Ort	TT 047	64.11	r8 rot	26.88	45 100	. 54.40	F2 280	rr 85
	$t, tg \delta$	11.947	64.11 +0.750	58.591 1.052	36.88	45.100	- 54.42 0.465	53.280 1.765	55.87
	a'	+2.1	-4.I	+2.6	+0.327 $-3.7$	+3.7	<b>-3.6</b>	+5.0	-1.454 $-3.4$
	b'	-0.01	+0.98	0.00	+0.98	+0.01	+0.98	+0.02	+0.99
344	WILL -				2.90	135-12-75	. 5.90	W 24 25 34 3	200

100	3.75	648) δ	Arae	651) a	Arae	653) β D	raconis	652) λ S	Scornii
Ta	g	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1000									
194	47	17 <sup>h</sup> 26 <sup>m</sup>	-60° 38′	17 <sup>h</sup> 27 <sup>m</sup>	-49° 50′	17 <sup>h</sup> 29 <sup>m</sup>	+52°19′	17 <sup>h</sup> 29 <sup>m</sup>	-37° 4′
Ton		8	0,00	8		B	"6"aa		"
Jan.	1	14.12 39	28.58 168	40.940 313	9.10	11.438 202	76.22 72.68 354	57.470 263	1.04 46
	II	14.51 45	26.90 142	41.253 361	7.96 94	11.640 262	12.00 221	57·733 301	0.58 31
	21	14.96 50	25.48 112	41.614 399	7.02 71	11.902 313	109.31 200	58.034 331	0.27
Febr.	31	15.46	24.36 82	42.013 428	6.31 47	12.215 255	66.42 250	58.365 355	0.10 3
reul.	10	16.01 57	23.54 49.	42.441 446	5.84 23	12.570 386	63.92 196	58.720 369	0.07 9
	20	16.58 58	23.05 16	42.887 458	5.61 <sub>1</sub>	12.956 406	61.96	59.089	0.16
März	2	17.16	22.89 =	43.345 46r	5.60 =	13.362 416	60.61 69	50.466	0.36 30
	12	17.76 58	23.04 46	43.806	5.82		59.92	59.845 379	0.00
	22	1 10.34	23.50 75	44.263 447	$6.25 \begin{array}{c} 43 \\ 62 \end{array}$	14.192 402	$59.89 \frac{3}{62}$	60.221 369	1.03 45
April	I	18.91 57	24.25 104	44.710 447	6.87 81	14.594 381	60.51	60 500	1.48 45
				тл 1	D1			33/	3-
	II	19.47 52	25.29 129	45.141 411	7.68 99	14.975 351	61.73	60.947	2.00 58
M-:	21	19.99 49	26.58 153	45.552 384	8.67 99	15.326 351	03.50 222	61.288 320	2.50 65
Mai	I	20.48 44	20.11	45.930 252	9.02	15.039 270	65.75 263	61.608 296	3.23 72
	II	20.92 38	29.84 192	46.288 313	11.12	15.909 220	68.38 291	61.904 265	3.95 79
	21	21.30 33	31.76 205	46.601 269	12.55	16.129 165	71.29 309	62.169 231	4.74 84
	31	21.63 27	33.81 215	46.870 220	14.08 161	16.294 109	74.38	62.400	5.58 90
Juni	10	21.00	35.96 221	47.090 166	15.69 166	16.403 49	74.38 318 77.56 316	62.591	6.48
	19	22.09 11	38.17 220	47.256 108	17.35 166	16.452 12	80.72 306	62.740	7.42 05
	29	22.20	40.37 213	47.364 48	19.01	16.440	83.78 200	62.842	8.37 05
Juli	9	22.24 - 4	42.50 202	47.412 =	20.63 154	16.369 128	86.66 263	62.896 4	9.32 92
	το.		The state of the s	The second second				1 1 1 1 1 1 1 1	
	19	22.20 12 22.08	44.52 184	47.400 71	22.17 140	16.241 182	89.29 230	62.855	10.24 84
Aug.	29 8	22.00 19	46.36	47.329 126	23.57 123	16.059 232	91.59 192	62.765	11.08 75 11.83 62
mug.	18	21.89 25	47.95 130	47.203	24.80 100 25.80 72	15.827 273	93.51 151	60 605	12.45 45
	28	21.64 30 21.34 34	49.25 95	47.029 215 46.814 244	25.80 73 26.53 44	15.554 308	95.02 105 96.07 58	62.471 189	12.90 45
	20	21.34 34	50.20 56		District Control	15.246 333	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		0.000
Sept.	7	21.00 36	50.76 16	46.570 261	26.97 12	14.913 346	96.65 7	62.282 203	13.18 8
	17	20.64 36	50.92 =	46.309	27.09 -	14.567 349	96.72 -	62.079 207	13.26 =
1	27	20.20	50.66 68	40.040	26.88	14.210	96.29	61.872	13.13 33
Okt.	7	19.94	49.98 107	45.795 223	26.36 82	13.879 216	95-35 145	61.676	12.80
	17	19.63 31	48.91 142	45.572 182	25.53 110	13.563 282	93.90 192	61.501 1/3	12.29 66
	27	19.38 19	47.49 171	45.390 128	24.43 130	13.281 237	91.98 238	6T 260	11.63
Nov.	6	19.19 10	45.78 193		23.13 146	13.044 181		6T 262 9/	10.86 85
	16	19.09 1	43.85 207	45 107 3	21 67	12.863 118	86.82 313	$61.218 \frac{45}{12}$	10.01 87
	26	19.08 -8	41.78 213	15 202	21.67 <sub>155</sub> 20.12 <sub>158</sub>	12.745 50	83.69 313		9.14 85
Dez.	6	19.16	39.65 210	45.280 78	18.54 153	$12.745 \frac{50}{21}$	80.29 340	61.302 72	8.29 79
	16	19.33 27	37.55 200	45.431 219	17.01	12.716	76.71 366	61.434 187	7.50 68
	26	19.60	35.55 182	45.650 282	15.58 127	12.809 163	73.05 362	61.621 238	6.82 <sub>56</sub> 6.26
E Carlo	36	19.94	33.73	45.932	14.31	12.972	69.43	61.859	0.20
Mittl	Ort	18.49	2T ES	11 122	TT 07	13.960	83.66	60.384	1.62
	, tg δ	2.040	31.58	44.423	11.07 —1.185	1.637	+1.296	1.253	-0.755
	a'	+5.4	1.778 2.9	1.550 +4.6	-2.8	+1.4	-2.7	+4.1	-2.6
	b'	+0.02	+0.99	+0.01	+0.99		+0.99	+0.01	+0.99
,	33 713	1 0.02	, 0.99	1 . 0.01	. 0.99		97	1/ BONG 5	15 4 13 14

Та	.o <del>.</del>	656) a 0	phiuchi	654) भे 🛭	corpii	658) ξ Se	erpentis	664) w D	raconis
	5	AR.	Dekl.	AR.	Dekl.	AR.	DekL	AR.	Dekl.
194	17	17 <sup>h</sup> 32 <sup>m</sup>	+12° 35′	17 <sup>h</sup> 33 <sup>m</sup>	-42° 57'	17 <sup>h</sup> 34 <sup>m</sup>	-15° 22′	17 <sup>h</sup> 37 <sup>m</sup>	+68° 46′
Jan.	I	26.149 193	45.22 231	27.281 27.77	57.27 82	30.532 216	2.96	11.93 22	50.03 364
	II	20.342	42.91	27.550 220	56.45 64	30.748	3.75 82	12.15	40.39
	21	20.500	40.72	27.878	55.81 47	30.997	4.57 0-	12.40	42.99 205
	31	20.823	38.70 176	28.232 379	55-34 29	31.271	5.38 _0	12.92	39.94 259
Febr.	10	27.098 288	36.94 143	28.611 397	55.05 12	31.504 306	0.10 69	13.43 57	37-35 204
7.54	20	27.386	35.51 106	29.008 407	54.93 5	31.870 313	6.85	14.00 62	35.31 141
- März	2	27.003	34.45 64	29.415	54.98	32.183 315 32.498 313	1.42 10	14.62 64	33.90 74
	12	27.002	33.81 22	29.825	55.18 34	32.498 313	7.07	15.20 65	33.16 7
A*1	22	28.280 291	33.59 =	30.233 401	55.52 48	32.811 308	8.16 13	15.91 63	33.09 60
April	Ι	28.571 281	33·79 <sub>61</sub>	30.634 388	56.00 60	33.119 298	$8.29\frac{-3}{1}$	16.54 59	33.69 123
	II	28.852 267	34.40 96	31.022 371	56.60 72	33.417 286	8.28	17.13 17.68 47 18.15 40	34.92 181
Mai	2I I	29.119 249	35.36 127	31.393 240	57·3 <sup>2</sup> 84 58.16 05	33.703 269	8.15 24	17.00 47	36.73 230
111601	11	29.368 227	36.63 <sub>153</sub> 38.16 <sub>170</sub>	31.742 322		33.972 249	7.91 32	18.15 40	39.03 270
	21	29.595 <sub>201</sub> 29.796 <sub>172</sub>	30.10	32.064 289	59.11 105	34.221 226	7.59 36	18.55 30 18.85 21	41.73 300
		The second secon	39.86 1/6	32.353 251	60.16 115	34.447 197	7.23 38		44.73 321
Tour	31	29.968	41.68 188	32.604 209	61.31 121	34.644 165	6.85 38	19.06	47.94 330
Juni	10	30.108 104	43.50 187	32.813 161	62.52 126	34.809 129	0.47	19.18	51.24 220
	19	1530.212 66	45.43 180	1532.974 111	63.78 128	1634.938 gr	0.12	19.18	54.54
Juli	29	30.278 27	47.23 169	33.085 58	65.06 126	35.029 52	5.00 27	19.08 19	1 57.75
Juil	9	30.305 7	48.92 154	33.143 3	66.32 122	35.081 10	5.53 21	18.89 29	277
	19	30.293	50.46	33.146	67.54 112	35.091 31	5.32 16	18.60 38	63.55 245
	29	30.242 86	51.01	33.097	68.66	35.060 68	5.16	18.22 46	00.00
Aug.	8	30.156 118	52.94	32.998	09.00 82	34.992 103	5.04 8	18.22 46 17.76 52	68.07 164
	18	30.038 145	53.84 64	32.855 180	70.48 62	34.889 132	4.96	17.44 0	69.71
	28	29.893 165	54.48 38	32.675 208	71.10 39	34.757 154	4.91 2	10.00 61	70.88 68
Sept.	7	29.728	54.86 10	32.467 225	71.49 14	34.603 166	4.89 <sub>1</sub>	16.05 64	71.56 16
	17	1 29.551 770	54.96 =	32.242 228	71.63 =	34.437	4.88 -	15.41 6	71.72 36
3121	27	29.372	54.78 47	32.014	71.50 39	34.267 162	4.89 4	14.76 62	71.36 89
Okt.	7	29.199 7.6	54.31 76	31.796	71.II 62	34.105	4.93 6	14.13 60	70.47
	17	29.043	53.55 104	31.001 160	70.49 84	33.900 118	4.99 11	13.53 56	69.06
	27	28.912 97	52.51 132	31.441 113	69.65 100	33.842 82	5.10 18	12.97 48	67.15 238
Nov.	6	28.815	1 51.19 750	31.328 57	68.65	33.760 40	5.28	12.40	04.77
	16	20.759 II	49.00 182	31.271 =	67.52	33.720 8	5.53	12.08	61.96
2 70	26	28.748 26	47.77 203	3I 276 70	00.33	33.728	5.00 15	11.77 20	50.19 246
Dez.	6	28.784 84	45.74 218	31.346 70	65.14 115	33.785 107	6.33 56	11.57 8	55.33 365
	16	28.868	43.56 228	31.479 104	63.99 106	33.892 153	6.89 66	11.49 3	51.68 373
	26	28.997	41.28	31.673 250	62.93 92	34.045 105	7.55 73	11.52	47.95 371
and in	36	29.169	38.96	31.923	62.01	34.240	8.28	11.67	44.24
	L Ort	28.346	49.78	30.425	58.11	32.964	1.07	15.41	57-54
	, tg δ	1.025	+0.223	1.367	-0.931	1.037	-0.275	2.763	+2.576
	a'	+2.8	-2.4	+4.3	-2.3	+3.4	-2.2	-0.4	-2.0
<i>b</i> ,	b'	0.00	+0.99	+0.01	+0.99	0.00	+0.99	0.02	+1.00

	663) ı E	[erculis	661) η P	avonis	66 <sub>5</sub> ) β 0	phiuchi	670) ψ Dr	aconis nr
Tag	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1947	17 <sup>h</sup> 37 <sup>m</sup>	+46° 1′	17 <sup>h</sup> 40 <sup>m</sup>	-64° 41'	17 <sup>h</sup> 40 <sup>m</sup>	+4° 35′	17 <sup>h</sup> 42 <sup>m</sup>	+72° 10′
Jan. T	55.586 184	54.21 245	26.65 41	62.80 198	48.907	12.35 187	48.56	24.28 365
II	55.770 237	54.21 50.76 325	27.06 48	1 00.82	49.098 223	10.48 181	48.78 36	20.63 343
21	50.007	17.6	27.54 <sub>55</sub>	59.08 174	49.321 250	8.67 168	40.14	
31	56.289	44.59 250	20.09	57.63 113	49.571 270	6.99 148	49.61 57 50.18 65	TA TT 309
Febr. 10	56.607 318	42.09 199	28.69 63	56.50 79	49.841 284	5.51 123	50.18 57	14.11 264 11.47 <sub>210</sub>
		51111		/9	204			
20 März 2	56.953 365	38.69 78	29.32 66	55.71 45	50.125 294	4.28 92	50.83 71	9.37 148
Marz 2	57.318 374 57.692 375	/0	29.98 67	55.26	50.419 297	3.36 58	51.54 75	7.89 82
22	57.092 375	37.91	30.65 67	55.15 24	50.716 296 51.012 301	2.78 23	52.29 75	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
April 1	58.067 375 58.422	37.77 50	31.32 66 31.98 63	55.39 58		2.55 - 12 2.67	53.04 73	7 11 52
arpin 1	58.433 351	38.27 109		55.97 89	51.303 283	45	53.77 70	7.44 116
II	58.784 327	39.36 163	32.61 <sub>61</sub>	56.86	51.586 271	3.12 76	54.47 63	8.60
21	59.111 207	40.99	33.22 57	58.05 147	51.857 255	3.88	55.10 56 55.66 46	10.33 223
Mai 1	59.408	43.09	33.79 22	59.52	52.112 235	4.89 122	55.66 46	12.50 264
II	59.669 219	45.580	34.31	61.24 194	52.347 212	6.11	50.12	15.20 295
21	59.888	48.36 297	34.77 40	63.18 212	52.559 183	7.48	56.48 36 24	18.15 295
31	60.062	51.33 307	35.17 32	65.30 226	52.742	8.95 151	56.72	21.32 327
Juni 10	60.187 72	54.40 308	35.49 23	07.50	52.895 118	10.40	50.85	24.59 329
19	60.259 19	57.48 300	35.72 15	1 00.00	53.013 81	11.90	56.85	27.88
29	60.278 =	60.48 282	35.87 6	72.20 222	53.094 42	13.41 135	50.72	31.09 303
Juli 9	60.244 86	63.31 260	35.93 -	74.59 223	53.136	14.76	56.48 24 35	34.12 279
19	60.158 136	65.91 230	35.90 12	76.82 206	E2 T20	15.99 108	56.13 46	36.91 248
29	60.022 182	68.21 196	35.78 20	78.88 183	52.102	T7 07	55.67 54	20 20
Aug. 8	59.840 222	70.17 156	35.58 28	80.71 153	52.020	T7.07	55.13 63	41.50 169
18	59.618 255	71.73	35.30	82.24 117	52.025	T8.60	54.50	43.19 122
28	59.363 280	72.86 67	34.96 34	83.41 78	52.792 133	19.22 53	53.80 74	44.41 74
Sept. 7					-55	7 - 1 -	The second secon	The second second
	59.083 294	73.53 20	34.57 41	84.19 34	52.637 <sub>168</sub> 52.469 <sub>171</sub>	19.54 12	53.06 76	$\begin{vmatrix} 45.15 & 23 \\ 45.38 & \frac{2}{20} \end{vmatrix}$
17 27	58.789 298	73.73 = 29	34.16 42	84.53 11	FO 008	19.56	52.30 78	15.00
Okt. 7	58.491 291	73.44 79 72.65 127	33.74 41	83.86	FO TOT	19.30 32	51.52 77 50.75 73	11 27
17	58.200 272 57.928 243	71.38 174	33·33 <sub>37</sub> 32.96 <sub>32</sub>	82.87 99	51.980 126	T8.7T 55	50.02 68	42.92 184
						13	The public	104
27	57.685 203	69.64 219	32.64 25	81.47	51.854 94	17.96 98	49.34 61	41.08 232
Nov. 6	57.482	107.45	32.39 -6	79.73 200	51.700	16.98	48.73 51	38.76 275
16	57.329 98			77.73 220	51.706 10	15.78	40.22	36.01 313 32.88 342
26 Dez. 6	57.231 37	102.92 222	32,120 5	75.53 221	51.090 36	14.39 158	41.02 27	29.46 342
Dez. U	57.194 26	342	32.23 15	73.22 233	51.732 83	12.81 172	47.55	
16.	57.220 89	55.26 352	32.38 26	70.89 226	51.815 128	11.09 181	47.40	25.84 373
26	57.309 150	51.14 350	32.64 36	68.63 212	51.943 170	9.28 187	47.40 14	18.41 370
36	57.459	48.24	33.00	66.51	52.113	7.41	47.54	18.41
Mittl. Ort	57-990	61.05	31.60	64.59	51.151	16.34	52.51	31.51
sec δ, tg δ	1.440	+1.037	2.340	-2.116	1.003	+0.080	3.267	+3.110
a, a'	+1.7	-1.9	+5.9	-1.7	+3.0	-I.7	-1.1	-r.5
b, b'	-0.01	+1.00	+0.0T	+1.00	0.00	+1.00	-0.02	+1.00

-		667) µ H	erculis <sup>1</sup> )	675) 35 I	raconis	671) E I	Praconis	672) & H	lerculis
Та 	ıg	AR.	Dekl.	AR.	Dekl.	AR.	Deki.	AR.	Dekl.
19.	47	17 <sup>h</sup> 44 <sup>m</sup>	+27° 44′	17 <sup>h</sup> 51 <sup>m</sup>	+76° 57′	17 <sup>h</sup> 52 <sup>m</sup>	+56° 52′	17 <sup>h</sup> 54 <sup>m</sup>	+37° 15′
Jan.	I	20.707 -176	56.13 294	43.97	69.78 361	33.850 168	42.73 <sub>362</sub>	23.696	17.15 323
W 31	11	20.883 216	53.19 279	44.10	1 00.17	34.018	39.11	23.859 208	13.92 308
-	21	21.099	50.40 254	44.50	62.77 310	34.256 301	39.11 35.68 343 313	24.067	10.84
10000	31	21.347	47.80	45.16	59.07 268	34.557 355	32.55 270	24.314	8.03
Febr.	10	21.022 295	45.66 178	45.88 83	56.99 215	34.912 397	29.85 218	24.594 306	5.58 243
	20	21.017	43.88	46.71 92	54.84 156	35.309 428	27.67	24.900 324	3.59 146
März	2	44.444	42.58	47.63 97	53.28 91	35.737	20.00 94	25.224 224	2.13 88
	12	22.53/ 274	41.81 22	48.60	52.37 24	36.184 453	25.14 28	25.550 228	1.25 29
Amril	22	22.051	41.59 -	49.60 97	52.13 42	36.637 447	24.86 = 39	25.896 334	0.96 31
April	1	23.160 298	41.90 82	50.57 93	52.55 106	37.004 430	25.25 103	26.230 334	1.27 88
15.75	II	23.458 283	42.72 129	51.50 86	53.61 163	37.514 403	26.28 161	26.555 308	2.15
7M :	21	23.741 263	44.01 170	52.36 75	55.24 214	37.917 365	27.89	20.003 284	3.50 186
Mai	I	24.004 238	45.71 202	53.11 62	57.38 257	38.282 318	30.01 255	27.150 259	5.42 224
-11-5	11 21	24.242 209	47.73 228	53.73 48	59.95 289	38.600 266 38.866 206	32.56 288	27.409 226	7.66 255
10-7-	21	24.451 176	50.01 245	54.21 32	62.84 312		35.44 312	27.635 188	10.21 275
	31	24.627 139	52.46 253	54-53 16	65.96 <sub>325</sub>	39.072 143	38.56 41.81 325 328	27.823 148	12.96 287
Juni	10	24.700	54.99 254	54.69 -	109.21 329	39.215 75	41.81 328	27.971	15.83
	19*)	1824.866 57	57.53 247	54.68 18	72.50 322	39.290 7	45.09 222	28.074 56	110.73
Juli	29	24.923 15	60.00 235	54.50 34	75.72 307	39.297 61	48.32 308	28.130 8	21.58 272
งแบ	.9	24.938 =	62.35 215	54.16 49	78.79 284	39.236 127	51.40 286	28.138 = 39	24.30 252
178 11	19	24.909 70	64.50 190	53.67 63	81.63	39.109 191	54.26 257	28.099 86	26.82
Arron	29	24.839 109	66.40 162	53.04 76	04.10	38.918	56.83 222	28.013 129	29.09 105
Aug.	8 18	24.730 144	68.02 130 69.32 06	52.28 87	86.38 180	38.669 299	59.05 182	27.884 168	31.04 161
1	28	24.586 <sub>174</sub> <sub>195</sub>	70 28	51.41 95 50.46 103	88.18 135 89.53 88	38.370 341	60.87 <sub>138</sub> 62.25 <sub>90</sub>	27.716 201 27.515 226	32.65 122 33.87 80
<b>a</b>			3			38.029 374			
Sept.	7	24.217 209	70.86 20	49.43 106	90.41 37	37.655 395	63.15 40	27.289 242	34.67 37
	17	24.008 214	71.06 =	48.37 109	90.78 37	37.200	63.55	27.047 250	35.04 -8
Okt.	27	23.794 209	70.86	47.28 107	90.64 66	30.050 398	63.44 64	26.797 246	34.96
ORU.	7	23.585 193	70.27	46.21 104	89.98 118 88.80 168	36.458 <sub>380</sub> 36.078 <sub>240</sub>	62.80 116 61.64 166	26.551 <sub>231</sub> 26.320 <sub>208</sub>	34.43 99
	01/82	23.392 168	69.27 138	45.17 97		379			33.44 143
Nov.	<sup>27</sup> 6	23.224 135	67.89 176	44.20 88	87.12 216	35.729 305	59.98 215	26.112	32.01 186
TYOV.	16	23.089 93	66.13 210	43.32 76	84.96 261	35.424 249	57.83 259	25.938 131	30.15 226
	26	22.996 47	64.03 <sub>241</sub>	42.56 62 41.94	82.35 298	35.175 184	55.24 298	25.807 83	27.89 260
Dez.	6	22.949 <del>3</del> 22.952 <sub>54</sub>	61.62 266 58.96 28c		79.37 330	34.991 111 34.880 25	52.26 48.96	25.724 30 25.694 35	25.29 <sub>290</sub> <sub>22.39 <sub>311</sub></sub>
Transition in	30/19	34	205	20	76.07 352	23	333	-3	
	16	23.006	56.11 295	41.21 9	72.55 364	34.845	45.43 365	25.719 80	19.28
5-10	26	23.110 151 23.261	53.16 <sup>295</sup> 50.20	41.12 10	68.91 <sub>365</sub> 65.26	34.889 122	41.78 366	25.799 133	16.04 325
- Clark	36	23.201	50.20	41.22	05.20	35.011	38.12	25.932	12.79
	l.Ort	22.933	61.92	49.03	76.50	36.605	49.32	26.013	23.13
sec δ,			+0.526		+4.322		+1.533	the same of the sa	+0.761
a,		+2.4	<b>-1.4</b>	-2.7	-o.7	+1.0	−o.6		-0.5
<i>b</i> ,			+1.00		+1.00	0.00	+1.00	0.00	+1.00
1) Die jährliche Parallaxe (c//rog) ist bereits berücksichtigt.									

Die jährliche Parallaxe (0"109) ist bereits berücksichtigt.
 Bei Stern 675), 671) und 672) lies Juni 20.

1	20/1	676) γ I	)raconis	673) v Oj	ohiuchi	677) 67	Onhinchi	679) y S	agittarii
Ta	ng	AR.	Dekl.	AR.	Dekl.	AR,	Dekl.	AR.	Dekl.
-									
19	47	17 <sup>h</sup> 55 <sup>m</sup>	+51° 29′	17 <sup>h</sup> 56 <sup>m</sup>	-9° 46′	17 57 <sup>m</sup>	+2° 55′	18 <sup>h</sup> 2 <sup>m</sup>	-30° 25'
Jan.	I	19.824 161	33.45 356	4.039 189	11.20	57.050 176	52.84 174	21.359 213	38.32 26
	II	10.085	24.09	4.228	12.22 103	57.226 209	51.10	21.572	38.06
	21	20.200	20.51 308	4.451 251	13.25 98	57.435 228	49.41	1 2T X22	37.89
	31	20.482	23.43 268	4.702 272	14.23 89	57.673 260	47.83	22.106 309	37.78 4
Febr.	10	20.804 359	20.75 218	4.974 287	15.12 76	57.933 277	46.44 116	22.415 327	37·74 I
	20	21.163 385	18.57 150	5.261 298	15.88	58.210 287	45.28 88	22.742 340	37.73
März	2	21.548 400	16.98 96	5.559 204	16.47	58.497 294	11.10		37.76
	12	21.048	16.02 31	5.803	16.86 39	58.791	43.85 55	23.429 350	37.81
	22	22,355	15.71 35	0.109	17.05 -	59.087	43.63 =	23.779 240	37.86 5
Apri	I	22.758 389	16.06 98	6.472 298	17.02	59.382 289	43.74	24.128 344	37.93 7
	11	23.147 366	17.04 155	6.770 288	16.80	59.671 279	44.18	21 172	28.00
	21	23.513 335	18.59 205	7.058 274	16.40	59.950 265	14 OT /3	24 806 334	38.09 9
Mai	I	23.040	20.64 248	7.332 257	15.85 66	60.215	45.89 118	25.125 319	38.22 18
	II	24.145 257	23.12 281	7.589 225	15.19 74	00.402	47.07	25.426 277	38.40
	21	24.396 202	25.93 304	7.824 210	14.45 78	60.688 200	48.40	25.703 248	38.63 29
	31	24.598 146		8.034 178	72.67	60.888	49.83 147		
Juni	10		28.97 <sub>318</sub> 32.15 <sub>322</sub>	8.212	T2.80		51.30 146	26 -61	38.92 36 39.28
-V-34-1	20	24.744 87 24.831 28	35.37 317	8.357 107	T2.T4 /5	6T TOT "33	52.76	26.338 174	20.72
	29	24.850 -	38.54 303	8 464 67	11.44 62	61.280	54.17 132	26.470 86	40.22
Juli	9	24.827 32	41.57 281	8.531 26	10.82	61.348 19	55.49 120	26.556 39	40.77 58
	T.O.				10.28	-		1 10 2 2	Charles of the last of the
	19 29	24.735 <sub>148</sub> 24.587 <sub>201</sub>	44.38 <sub>254</sub> 46.92 <sub>220</sub>	8.557 <sub>15</sub> 8.542 <sub>55</sub>	0 82 45	61.367 22 61.345 60	56.69 106	26.595 9 26.586 54	41.35 59
Aug.	8	24.386	40 TO	8 487	0.47	6T 28E	57·75 89 58.64 73	26.532	41.94 58 42.52 52
	18	24.138 286	50.93 138	8.207	0.01	6T TOO 93	50.36	26.425	43.04 46
	28	23.852 316	52.31 91	8.276	9.21 18	61.065 148	59.89 53	26.302 162	43.50 35
Sept.		22.446	9-	-1	,	MANUAL PROPERTY AND ADDRESS OF THE PARTY AND A	34		
Dept.	7 17	23.536 336 23.200	$53.22$ $53.65$ $\frac{43}{7}$	8.130 <sub>161</sub> 7.969 <sub>168</sub>	8.94 <u>2</u> 8.92 <u>5</u>	60.917 <sub>164</sub> 60.753 <sub>171</sub>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	26.140 <sub>182</sub> 25.958 <sub>190</sub>	43.85 <sub>24</sub> 44.09 <sub>10</sub>
	27	22.856 344	53.58 7	7.801 165	8.98	60.582 169	60.22	25.768 187	44.19 3
Okt.	7	22 515 31	52 nn 39		0.12	00.413	60.07	25.581 173	44.16
	17	22.191 296	51.89 110	7.485 128	0.24	60.258 134	ro 62 45	25.408 148	43.99 28
	100			A LOUIS AND			-/	COLUMN TO SERVICE STATE OF THE PARTY OF THE	
Nov.	<sup>27</sup> 6	21.895 21.638 207	50.30 207	7.357 <sub>96</sub> 7.261 57	9.65 41	60.124 <sub>102</sub> 60.022 66	58.95 86	25.260 113	43.71 37
1107.	16	21 /21	48.23 251	7 204 5/	51	59.956 23	58.09 107	25.147 68 25.079 18	43.34 44 42.90
	26	ar aga 149	45.72 <sub>289</sub> 42.83 <sub>321</sub>	7.TOT -	TT 20	$59.930 \frac{23}{22}$	57.02 126 55.76 143	2 F OD I -	42.43 48
Dez.	6	21.202 84 21.198 16	39.62	7.225 81	11.94 74	59.955 69	54.33 158	25.096 35	41.95 44
	-(		דדנ		04		10 THE 1975	9	
	16 26	21.182 53	36.18	7:306 126	12.78 93	60.024 113	52.75 167	25.185 140	41.51 38
	36	21.235 121 21.356	32.61 357 29.02 359	7.43 <sup>2</sup> 169 7.601	13.71 99	60.137 <sub>154</sub> 60.291	51.08 172 49.36	25.325 <sub>189</sub> 25.514	41.13 32 40.81
20 110		21.550	29.02	7.001	-4.75	30.292	77.39	23-3-4	100
Mittl		22.403	39.82	6.423	7.83	59-325	57.08	24.115	35.92
sec δ,		LOS ACCIDION SAND	+1.257		0.172		+0.051		-o.587
a,		+1.4	-0.4		-o.3		-o.2	0 )	+0.2
b,	0	0.00	+1.00	0.00	+1.00	0.00	+1.00		+1.00
					111		55 14	K 4	

	680) 72 0	phiuchi	681) o H	erculis	682) μ Sa	gittarii	685) 36 I	Praconis
Tag	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1947	18 <sup>h</sup> 4 <sup>m</sup>	+9° 33′	18 <sup>h</sup> 5 <sup>m</sup>	+28° 44′	18 <sup>h</sup> Ic <sup>m</sup>	-21° 4'	18 <sup>h</sup> 13 <sup>m</sup>	+64° 22'
Jan. 1	47.875 165	12.72	26.130	68.83	32.996 189	31.85 <sub>27</sub>	32.16	39.15 368
II	48.040	10.05	20.283	05.89	33.185 226	32.12	32.28	35.47 252
21	48.239	0.05 ,86	20.477	63.07	33.411 256	32.43 22	32.5I	31.04
31	48.468	0.79 164	26.706	00.40	33.667 280	32.75 21	32.82 38	28.00 280
Febr. 10	48.721 271	5.15 136	26.965 282	58.20 188	33.947 298	33.06 27	33.20 44	25.77 240
20	48.992 284	3.79 <sub>101</sub>	27.247 299	56.32 140	34.245 311	33.33 21	33.64 <sub>50</sub>	23.37 182
März 2	49.276	2.78 64	27.540	54.92 89	34.550	33.54 13	34.14	21.55 119
12	49.568	2.14 25	27.857 315	54.03 34	34.070 22.2	33.67 3	34.07	20.36 53
22	49.803	1.89 = 15	20.172	53.69 =1	35.199 324	33.70 - 5	35.22 55	19.83
April 1	50.158 290	2.04 53	28.486 308	53.90 74	35-523 320	33.65 3	35-77 54	19.98 81
II	50.448 280	2.57 89	28.794 296	54.64 122	35.843 312	33.51 20	36.31 <sub>50</sub>	20.79 142
21	50.728 268	3.46 118	29.090	55.86 166	30.155	33.31 25	30.81	22.21
Mai r	50.996 249	4.64	29.369 257	57.52 201	30.455 284	33.06 28	37.27 41	24.17 243
II	51.245 228	0.00 162	29.020	59.53 229	36.739 263	32.78 28	37.68 34	26.60 282
21	51.473 201	7.70 176	29.855 198	61.82 250	37.002 237	32.50 25	38.02 27	29.42 309
31	51.674 170	9.46 181	30.053 162	64.32 261	37.239 206	32.25 21	38.29 19	32.51 328
Juni 10	51.844 126	11.27 182	30.215 122	66.93 264	37.445	32.04 15	38.48	35.79
20	51.980 08	13.09 178	30.337 79	109.57	37.615	31.89 8	38.58 2	39.14
29	52.078 58	14.87 168	30.416 35	72.18 250	37.740 88	31.81 2	38.00	44.49 225
Juli 9	52.136	16.55 155	30.451 -9	74.08 233	37.834 44	31.79 - 5	30.53 16	45.74 306
19	52.154 23	18.10	30.442	77.01 211	37.878	31.84 11	38.37 24	48.80 281
29	52.131 62	19.48 118	30.389	79.12 -0-	37.878 43	31.95	38.13	51.61 248
Aug. 8	52.069 98	20.66	30.294	80.95	37.835 83	32.10	37.82 28	54.09 211
18	51.971 128	21.62 73	30.101	02.47	37.752 x18	32.28 18	37.44	56.20 168
28	51.843 152	22.35 49	29.996	83.65 81	37.634 146	32.46	37.01 48	57.88 121
Sept. 7	51.691 170	22.84 24	29.805 208	84.46	37.488 165	32.63	36.53 52	59.09 72
17	51.521 177	23.08 -	29.597 217	84.89 2	37.323 175	32.78	36.01 52	59.81 20
27	51.344 175	23.07 28	29.380 215	84.91 = 37	37.148	32.89 8	35.49 53	60.01 33
Okt. 7	51.169 164	22.79 54	29.165 204	84.54 79	36.974 162	32.97 3	34.90 52	59.68 86 58.82 40
17	51.005 143	22.25 80	28.961 182	83.75 120	36.812 139	33.00	34.44 48	140
27	50.862	21.45 106	28.779 152	82.55	36.673 108	33.01	33.96 44	57.42 190
Nov. 6	50.748 77	20.39 131	1 28 027	80.97	36.565 69	33.00 0	33.52 28	55.52 238
16	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	19.00	28.514	179.03 220	30.490 22	33.00 2	33.14 30	53.14 280
26 Dez. 6	50.035 9	1 -1.74 143	20.444 2T	10.10 256	30.473 26	33.02 6	32.04 22	50.34 317
Dez. 0	50.644 56	15.81 190	the same of the same of	74.20 276	36.499 75	33.08 11	32.62 13	47.17 345
16	50.700 100	13.91 201	28.452 79	71.44 290	36.574 122	33.19 18	32.49 3	43.72 362
26	50.800 143	11.90 206	28.531 726	68.54 204	36.696 167	33.37 23	$32.46 - \frac{3}{7}$	40.10 268
36	50.943	9.84	28.657	65.60	36.863	33.60	32.53	36.42
Mittl. Ort		17.43	28.397	74.28	35-554	28.40	35.40	44.73
sec δ, tg δ		+0.168	1.141	+0.549	1.072	<b>-0.385</b>	2.313	+2.085
a, a'	+2.8	+0.4	+2.3	+0.5	+3.6	+0.9	+0.3	+1.2
b, b'	0.00	+1.00	0.00	+1.00	0.00	+1.00	+o.oI	+1.00

Ta	g	688) η Sei	pentis	689) ε Sag	gittarii	690) 109	Herculis	695) χ Dr	aconis1)
-97	J	AR.	Dekl.	AR.	Dekl	AR.	DekL	AR.	Dekl,
194	47	18 <sup>h</sup> 18 <sup>m</sup>	-2° 54'	18 <sup>h</sup> 20 <sup>m</sup>	-34° 24′	18 <sup>h</sup> 21 <sup>m</sup>	+21°44′	18 <sup>h</sup> 21 <sup>m</sup>	+72° 42′
Jan.	1	31.615 161	55.55 136	36.381 <sub>201</sub>	45.56 59	24.016	34-47 263	56.48 10	32.42 367
	II	31.776	56.91 133	36.582 242	44.97	24.156 179	31.84	56.58 25	28.75
	21	31.971	58.24 126	36.824 278	44.45	24.335 212	29.30 237	50.83	25.20 355
	31	32.196 248	59.50 112	37.102 307	44.00	24.548 242	20.93	57.21 49	21.89 334
Febr.	10	32.444 <sub>268</sub>	60.62	37.409 328	43.62 30	24.790 265	24.83	57·70 59	18.95 247
	20	32.712 281	61.55	37.737 346	43.30 26	25.055 282	23.09	58.29 68	16.48
März	2	32.993 200	62.25	38.083 256	43.04	25.337 205	21.75 87	58.97 77	14.56
	12	33.283 206	62.69 17	38.439 262	42.84 .6	25.032	20.88 37	59.70 76	13.27 63
	22	33.579 207	62.86 -	38.802	42.68	25.934 304	20.51 =	00.40	12.64
April	I	33.876 295	62.75 38	39.167 362	42.57 5	26.238 302	20.63 60	61.23 75	12.68 69
	11	34.171 289	62.37 63	39.529 356	42.52 2	26.540 293	21.23 106	61.98	13.37
	21	34.460 278	61.74 82	39.885 343	42.54	26.833 281	22.29 145	02.00 6	14.68
Mai	1	34.738 262	60.91 99	40.220 226	42.62	27.114 262	23.74 178	03.33 *6	16.55 235
	II	35.001 244	59.92 112	40.554 303	42.80 27	27.377 240	25.52 206	63.89 46	18.90 274
	21	35.245 219	58.80 119	40.857 275	43.07 38	27.617 212	27.58 225	64.35 36	21.64 304
	31	35.464 191	57.61	41.132 240	43.45 48	27.829 179	29.83 236	64.71 24	24.68 323
Juni	10	35.655	56.40 120	41.372	43.93 -8	28.008	32.19	64.95 11	27.91 334
	20	35.812	55.20 114	41.573 156	44.51 68	20.151	34.60	65.06 -	31.25 225
	29	35.933 8T	54.06	41.729 100	45.19	28.254 6T	30.98	65.04	34.60 226
Juli	9	36.014 <u>39</u>	53.01 95	41.838 58	45.93 79	28.315 17	39.27 214	64.90 26	37.80 310
	19	36.053 2	52.06 82	41.896 8	46.72 81	28.332 26	41.41 194	64.64 38	40.96 285
	29	36.051 42	51.24 68	41.904 -	47.53 %	28.306 67	43-35 171	04.20	43.81 255
Aug.	8	36.009 79	50.56	41.862 87	48.33 74	28.239 105	45.06	03.11 28	46.36 219
	18	35.930 112	50.03 38	41.775 128	49.07 67	28.134	46.49 114	03.19 66	48.55 177
	28	35.817 139	49.65 24	41.647 162	49.74 54	27.995 166	47.63 81	62.53 73	50.32
Sept.	7	35.678 158	49.41 9	41.485 185	50.28 50.68 40 23	27.829 186	48.44 48	61.80	51.64 82
	17	35.520 168	49.32 5	41.300	50.68	27.643 196	48.92 13	01.03 80	52.46 32
07.1	27	35.352 168	49.37 20	41.102	50.91 6	27.447	49.05 -24	60.23 81	52.78 =
Okt.	7	35.184 159	49.57 34	40.903 188	50.97 =	27.250 189	48.81 60	59.42 78	52.57 74
	17	35.025 140	49.91 49	40.715 164	50.84 29	27.061 170	48.21 96	58.64 75	51.83 127
Tables-	27	34.885 111	50.40 64	40.551 131	50.55 44	26.891	47.25 130	57.89 70	50.56 179
Nov.	6	34.774	51.04 70	40.420 00	50.II	1 20.740 0	45.95 -60	57.19 61	48.77 228
	16	34.09/ 36	51.03 94	40.332 39	49.55 64	20.040 67	44.32 104	56.58 51 56.07 39	46.49 271
D	26	34.661	52.77 108	40.293 15	40.91	20.5/3 22	42.30 221	1 30.01 20	43.78 308
Dez.	6	34.670 53	53.85 119	40.308 71	48.21 70	26.551 = 24	40.17 241	55.68 27	40.70 338
	16	34.723 97	55.04 129	40.379 124	47.51 69	26.575 71	37.76 255	55.41 13	37·32 <sup>1</sup> / <sub>358</sub> 33·74 <sup>1</sup> / <sub>365</sub>
	26	34.820	56.33	40.503 175	46.82 65	26.646	35.21 262	55.28 - I	33.74 365
1	36	34.960	57.66	40.678	46.17	26.762	32.59	55.29	30.09
Mitt	L Ort	33.948	51.02	39.252	42.00	26.274	39.58	60.73	37.54
	i, tg δ	1.001	-0.051	1.212	-o.685	1.077	+0.399	3.365	+3.213
· a,		+3.1	+1.6	+4.0	+1.8	+2.5	+1.9	-I.2	+1.9
b,	b'	0.00	+1.00	0.00	+1.00	0.00	+1.00	+0.02	+1.00
	1) Die	jährliche Parall	axe (0"119) is	t bereits berücks	ichtigt.	- 150		K* 4	7

<sup>1)</sup> Die jährliche Parallaxe (o."119) ist bereits berücksichtigt.

V == 11=									
Та	o.	691) α T	elescopii	699) α I		698) <b>ζ</b> I	Pavonis	703) 110	Herculis
1.44	8	AR.	Dekl.	AR.	Dekl.	AR₋	Dekl.	AR.	Dekl.
19.	47	18 <sup>h</sup> 22 <sup>m</sup>	-45° 59′	18 <sup>h</sup> 35 <sup>m</sup>	+38° 43′	18 <sup>h</sup> 36 <sup>m</sup>	-71°28′	18 <sup>h</sup> 43 <sup>m</sup>	+20° 29′
Jan.	I	59.286 225	62.16	6.174 113	54.58	44.92 35	41.53 264	20.487	34.36 252
	II	FOSTT	60.86	0.287	54.58 <sub>322</sub> 51.36 <sub>312</sub>	45.27 47	38.89	20.005	31.84
	21	50.786	59.67	0.450	48.24 293	45.74 -8	30.38	20.702	29.38
	31	00.105	58.60	6.656	45.31 262	46.32 67	34.07 206	20.954	27.07 207
Febr.	10	60.459 381	57.67	6.902 278	42.69 222	46.99 74	32.01 175	21.176 248	25.00
	20	60.840	56.90 62	7.180	40.47 172	47·73 80	30.26	21.424 269	23.25 136
März	2	1 01 2/12	56.28		38.75 i16	48:53 84	28.85 106	21.693	21.89 92
	12	01.000	55.83 29		37·59 <sub>58</sub>	49.37 87	27.79 68	21.077	20.97 45
	22	04.005	55.54 12	U.T.T.7 217	37.01 -	50.24 88	27.11 30	22.272	20.52
April	I	62.512 425	55.42 -	340	37.03 62	51.12 87	26.81 9	22.573 302	20.56
	II	62.937 417	55.47	8.824 331	37.65	51.99 86	26.90 48	22.875 299	21.08
	21	03.354	55.70	9.133 216	38.82 168	52.85 .	27.38	23.174 500	22.05 97
Mai	1	63.755 381	56.10	9.470	40.50	53.68	28.23	23.463	23.42
	II	64.136 354	56.68 76	9.764 265	42.61	54.45 72	29.44	23.730 200	25.13
	21	64.490 319	57.44 92	10.029 230	45.08 275	55.17 64	30.99 185	23.993 230	27.12 220
	31	64.809 278	58.36 108	10.259 191	47.83 292	55.81	32.84 211	24.223 199	29.32
Juni	IO	05.007	59.44	10.450 147	50.75	50.30	34.95 233	24.422	31.66 234
	20	65.318 179	60.65	10.597 99	53.76 303	56.80 33	37.20 00	24.585 125	34.05 239
	29*)	05.497	01.97	10.696 49	56.79 295	57.13 21	39.76	3 24.710 83	30.44
Juli	9	65.619 63	63.36	10.745 =	59.74 280	57.34 9	42.33 259	3 24.793 40	38.75 218
	19	65 682	64.77 140	10.744	62.54 260	57.43 4	44.92 252	24.833	40.93 201
	29	65.686	66.17	TO 602	65.14 232	57.39 16	47.44 239	24828	42.94 178
Aug.	8	65.631	67.50 133	10.593	67.46	57.23 28	49.83 216	24.780 48	44.72
	18	65.522	68.71 105	10.449	69.46	56.95	51.99 186	24.692	46.25 124
	28	65.365 196	69.76 84	10.266 215	71.10	56.56 47	53.85	24.568	47.49 93
Sept.	7	65.169 224	70.60	10.051 238	70.24	56.09 53	55.34 107	24.415 176	10 10
	17	64.945 241	71.10	9.813 253	72 TC	55.56 57	56 AT	24.239 190	49.02 27
	27	64.704	71.50 31	9.560 256	72.52	54.99 -8	57.00	24.049 195	49.29 =
Okt.	7	64.462	$71.52 \frac{2}{27}$	9.304	73.43 -6	54.41	57.09 43	23.854	49.21 43
	17	64.232 204	71.25 56	9.055 232	72.87 103	53.84 57	56.66	23.664 174	48.78 78
	27	64.028 165	70.60	8.823	71.84 148	53.31 46	55.74 140	23.490 151	48.00
Nov.	6	63.863 116	60.88	8.618 169	70.36	52.85 37	54.34 182	23.339 119	46.88
	16	63.747 58	68.85	8.449 125	68.45	52.48 37	52.52	23.220 82	140
	26	$63.689 \frac{30}{5}$	07.05	8.324 76	66.15 264	52.23 13	50.30	23.138 40	43.66
Dez.	6	63.694 70	66.33	8.248 24	63.51 292	52.10 -	47.92 262	23.098	41.63 225
-	16	63.764 133	64.94	8.224 30	60.59 310	52.11	45.30 270	23.103 50	39.38 241
	26	63.897 194	63.55	8.254 84	57.49 320	52.26 28	42.60	23.153 94	36.97 240
	36	64.091	62.20	8.338	54.29	52.54	39.89	23.247	34.48
Mittl.	Ort	62.603	58.81	8.566	CO C4	FT 20	27 50	22 754	20.22
sec δ,		1.440	-r.o36	1.282	59·54 +0.802	51.29 3.148	37·5° -2.985	22.754 1.068	39·33 +0.374
a,		+4.4	+2.0	+2.0	+3.1	+7.0	+3.2	+2.6	+3.8
ъ,		-0.01	+0.99	+0.01	+0.99	-0.03	+0.99	0.00	+0.98
		i ihrliche Parallaxe							

Die jährliche Parallaxe (o"121) ist bereits berücksichtigt.
 Bei Stern 699), 698) und 703) lies Juni 30.

	704) λ	Pavonis	705) β :	Lyrae	707) o I	raconis	706) o Sa	gittarii
Tag	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1947	18h 47m	-62° 14′	18 <sup>h</sup> 48 <sup>m</sup>	+33° 17′	18 <sup>h</sup> 50 <sup>m</sup>	+59° 18′	18 <sup>h</sup> 51 <sup>m</sup>	-26° 21'
Ion T	8	60"0"	8		20.724	ET SIDE	8	"-
Jan. I	14.12 25	69.05 228	4.952 102	55.4I <sub>302</sub>	22.134 59	79.36 360	56.111	57.67 22
11 21	14.37 33	66.77	5.054 146	52.39 296	22.193 138	75.76 355	56.264 194	57.45 22
- The last relative to	14.70 40	64.58 205	5.200 188	49.43 279	22.331 213	68 84 337	56.458 228 56.686 257	57.23 21
31 Febr. 10	15.10 <sub>46</sub> 15.56 <sub>51</sub>	62.53 185	5.388 224	46.64 252	22.544 283	68.84 337 65.76 366		57.02 22 56.80 24
1001. 10	15.50 51	102	5.612 255	44.12 215	22.827 343	200	56.943 282	
20	16.07	59.06 136	5.867 282	41.97 170	23.170 393	63.10 215	57.225 301	56.56 27
März 2	10.02 -8	57.70 107	6.140	40.27	23.503 422	00.95 156	57.526	50.29
12	17.20 67	56.63 78	0.450	39.08 63	23.995	59.39 03	57.843 327	55.98 25
22	17.81 61	55.85 47	0.705 323	38.45 7	24.454	58.46 26	58.170 225	55.03 30
April 1	18.42 62	55.38 14	7.088 325	$38.38 \frac{7}{50}$	24.927 475	58.20 =	58.505 338	55.24 42
11	19.04 60	55.24 17	7.413 320	38.88	25.402 462	58.60 103	58.843 337	54.82
21	19.64 60	55.41 50	7.733	39.92	25.864	59.03 -60	59.180 331	54.40
Mai I	20.24	55.91 81	8.042	41.45	20.202	61.25	59.511	53.98 38
II	20.80	56.72	8.334 260	43.40	20.700	03.38	59.830	53.50
21	21.33 47	57.84 139	8.603 238	45.70 257	27.063 357	65.95 293	60.133 281	53.28 24
31	21.80	59.23 165	8.841 204	48.27 275	27.366 240	68.88 318 72.06 324	60.414 251	53.04 14
Juni 10	22.22	60.88	9.045 164	51.02 286	27.606	72.06 318	60.665 217	52.90
20	22.50 25	62.74	9.209 119	53.88 289	27.777 99	75.40 340	60.882	52.86 -7
30	22.85	64.77	9.328 73	50.77 282	27.876 24	78.80	61.060	52.93 19
Juli 9	4 23.04 11	66.92 220	9.401 25	59.59 270	5 27.900 =	82.17 337	61.194 87	53.12 29
19	23.15 2	69.12 219	9.426	62.29 251	27.849 125	85.44 308	61.281	53.41 38
29	23.17 -8	71.31 209	0.402	64.80 227	27.724 196	88.52 282	61.320	53.79 43
Aug. 8	23.09	73.40	9.333 70	67.07 197	27.528 261	91.34 249	61.211	54.22 47
18	22.94 22	75.34 171	9.219	69.04 164	27.267	93.83 212	61.257	54.69 48
28	22.72 29	77.05 142	9.066 185	70.68	26.950 365	95.95 169	61.162 95	55.17 46
Sept. 7			8.881	77.05	26 181	97.64 123	61.032 158	55.63 41
Sept. 7	22.43 34	78.47 106	8.671 226	71.95 88 72.83 47	26.585 401 26.184 426	1.08.87	60.874 175	56.04 33
27	22.09 37	79.53 66 80.19 22	8.445 <sub>232</sub>	72.20	25.758 437	00 60 /3	60.699 181	56.37 24
Okt. 7	2T.22 39	80 42	8.213 232	72.33		00.82	1 ( 0	1 56 6T
17	20.96 35	80 ar	7.985 214	70.00	24.886 435	99.50 86	60.518 177	56.76 4
	35	05	CONTRACTOR OF THE PARTY OF THE	0.5	417			56.80
Nov 6	20.61 30	79.56	7.771 190	72.08	24.469 386	98.64 139	60.180	
Nov. 6	20.31	78.49 145	7.581 157	70.81 169	24.083 343	97.25 190	60.045 ioi	56.75 13
16	20.07 16	77.04 177	7.424 118	69.12 206	23.740 288	95.35 238	59.944 59	56.62 19
26 Dez. 6	19.91 8	75.27 202	7.306	67.06 240	23.452 222	92.97 279	59.885 13 59.872 36	56.43 <sub>23</sub> 56.20 <sub>25</sub>
202.	19.83 -	73.25 220	7.233 25	64.66 268	23.230 149	90.18 314		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
16	19.85 11	71.05 229	7.208 24	61.98 288	23.081 72	87.04 340	59.908 83	55.95 26
26	19.96 20	68.76	7.232 73	59.10 208	23.009 - 9	83.64 355	59.991 130	55.69 25
36	20.16	66.44	7.305	56.12	23.018	80.09	60.121	55.44
Mittl. Ort	18.70	63.73	7.292	60.02	25.137	83.08	58.761	51.81
sec δ, tg δ	2.148	-1.901	1.196	+0.657	1.960	+1.686	1.116	-0.496
a, a'	+5.6	- <del> </del> -4.1	+2.2	+4.2	+0.9	+4.4	+3.7	+4.5
b, b'		+0.98		+0.98		+0.98	-o.or	+0.97

709) ϑ Serpentis pr 711) R Lyrae 708) λ Telescopii									Lyrno
Ta	g	AR.	Dekl.	AR.	DekL	AR.	Dekl.	713) Υ AR.	Dekl.
-	2-1-1-	1100	-73						-
19	47	18 <sup>h</sup> 53 <sup>m</sup>	+4° 7′	18 <sup>h</sup> 53 <sup>m</sup>	+43° 52′	· 18 <sup>h</sup> 54 <sup>m</sup>	-53° o'	18 <sup>h</sup> 56 <sup>m</sup>	+32° 36′
Jan.	I	32.740	54.10 164	40.767 81	27.13	9.919	42.60 183	55.227 91	52.02
	II	32.862	52.46	40.848	27.13 332 23.81 328 20.53 310	10.118	40.77	55.318 137	49.05 292
	21	33.019 190	50.87	40.984 .06	20.53	10.370	39.00 168	55.455 178	46.13 277
	31	33.209 218	49.37	41.170	1/.43 000	10.694 315	37.32 754	55.633	43.30 252
Febr.	10	33.427 240	48.03 111	41.401 271	14.60 244	10.694 362 11.056 401	35.78 138	55.848 246	40.84 216
	20	33.667 260	16.00	41.672	12.16	TT 457	34.40 120	56.094 274	38.68
März	2	33.927 275	46.08	41.9/5	10.21	11.000	33.20	56.368 295	36.95
	12	34.202 -06	45.56 52	42.305 348	8.80 80	14.544	32.21	56.663 310	35.73 68
	22	34.488	$45.38 \frac{16}{16}$	42.053 258	8.00 18	12.817 473	2T.44	56.973 320	35.05 11
April	1	34.781 296	45.54 50	43.011 361	$7.82 \frac{10}{43}$	13.301 487	30.89 31	57-293 324	34.94 =
	11		46.04 81			13.788 484	20.70		0
	21	35.077 <sub>295</sub> 35.372 <sub>289</sub>	46.85 109	43·37 <sup>2</sup> 35 <sup>6</sup> 43·7 <sup>28</sup> 34 <sup>2</sup>	8.25 <sub>102</sub> 9.27 <sub>157</sub>		20.52	57.617 321 57.938 311	35·38 98 36.36 147
Mai	I	35.661 <sub>279</sub>	47.94 132	11.070	10.84	TA 746 4/4	20.72	58.249 296	37.83
	II	35.940 263	49.26	11 202	12.88 245	15.202	21.17	58.545 274	39.73 226
	21	36.203 241	50.75 162	44.685 257	15.33 277	15.632 430	21 87	58.819 246	41.99 254
						394	93		
Juni	31	36.444	52.37 167	44.942 216	18.10 299	16.026	32.82	59.065 212	44.53 273
Jun	10	36.658 183	54.04 169	45.158 170	21.00	16.377 300 16.677 241	33.99 138	59.277 173	47.26 284
	30	36.841 147 36.988 108	55.73 165	45.328 118 45.446 65	24.22 318	-6 a-0 -T-	35.37 155	59.450 130 59.580 82	50.10 288
Juli	9	27 006	57.38	6 AE ETT	27.40 314	6 T7 006	36.92 167	7 40 660	52.98 283 55.81 272
	9		58.95 145	-2	30.54 304	110	38.59 176		
	19	37.162 23	60.40	45.520 46	33.58 285	17.206 40	40.35 177	59.699	58.53 254
35	29	37.185 =	01:70	45.474 <sub>98</sub>	36.43	17.246 = 30	42.12	59.686	01.07
Aug.	8	37.166	62.82	45.376	39.02	17.216 96	43.86	59.626 104	03.37 202
	18 28	37.107 95	63.76 74	45.229 192	41.31 193	17.120	45-50 147	59.522	65.39 169
	20	37.012 126	64.50 53	45.037 228	43.24 153	16.965 207	46.97 126	59.378 178	67.08 134
Sept.	7	36.886	65.03 32	44.809 257	44.77 110	16.758 248	48.23 98	59.200 204	68.42
	17	30.730 ,64	65.35 11	44.552	45.87 65	10.510	49.21 66	58.996	69.37
01.	27	36.572	65.46 =	44.270 284	40.52 16	10.237 285	49.87 31	58.776 228	69.91 12
Okt.	7	30.402	65.36	43.992 281	$46.68 {33}$	15.952	50.18 = 5	58.548	70.03 =
	17	36.235	65.05 52	43.711 267	46.35 82	15.671 260	50.13 42	58.322 213	69.72 75
	27	36.082	64.53 73	43.444 243	45.53 130	15.411	49.71	58.109 191	68.97 118
Nov.	6	35.951 102	63.80	43.201	44.23	15.187	48.94	57.918	67.79
	16	35.849 60	02.87	42.992 166	42.40 221	15.012	47.85 126	57.758 123	00.20
	26	35.784 25	01.75	42.820 118	40.25	14.895	46.49 108	57.635	04.22
Dez.	6	35.759 = 17	60.46	42.708 64	37.66 291	14.845 21	44.91 173	57.556 32	61.91 260
	16	35.776	59.02	42.644 8	34.75 314	14.866	43.18 182	57.524 15	59.31 281
	26	35.835 100	57.48 161	42.636 =	31.61 314	14.959 163	41.36 186	57.539 65	56.50 202
-157	36	35.935	55.87	42.684	28.33	15.122	39.50	57.604	53-58
Mittl	. Ort	35.028	59.48	43.257	31.23	13.607	36.50	57.562	56.44
	, tg δ	1.003	+0.072	1.387	+0.961	1.662	-1.327	1.187	+0.640
	a'	+3.0	+4.6	+1.8	+4.7	+4.8	+4.7	+2.2	+4.9
	b'	0.00	+0.97	+0.01	+0.97	-0.02	+0.97	+0.01	+0.97
13 30-3		The state of the s		1000		PERSONAL PROPERTY.	S. 35 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		48 - 1 - 11 -

	17.71								
Ta	g	716) ζ <i>I</i>	Aquilae	717) A A	quilae .	718) α Core	on. austr.	720) π Sa	gittarii
1015-5	0	AR.	Dekl	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
19	47	19 <sup>h</sup> 2 <sup>m</sup>	+13° 46′	19 <sup>h</sup> 3 <sup>m</sup>	-4° 57′	19 <sup>h</sup> 5 <sup>m</sup>	-37° 59′	19 <sup>h</sup> 6 <sup>m</sup>	-21° 6′
Jan.	1	56.112 103	54.68	23.788	54.84 107	49.168	27.28	34.209	41.43
oun.	II	56.215 103	52 56	23.908 156	55.91 105	40.22T	26.20	24 241	41.48
	21	56.357 176	50.47	24.064 188	56.06	40 520 199	25 20 99	24 572	AT 52
	31	56.533 205	48.49 178	24.252 216	57.02 9/	10 760	24 24	04.576	11.51 -
Febr.	10	56.738 232	46.71 150	24.468 240	ES 78 03	50.036	22 41 93	34.710 <sub>234</sub> 34.950 <sub>259</sub>	41.51 10
	6.30				09	3~3	07		
3.60	20	56.970 253	45.21 118	24.708 260	59.47 48	50.341 330	22.54 82	35.209 280	41.41
März	2	57.223 270	44.03 79	24.968 274	59.95 25	50.671 349	21.72 75	35.489 296	41.24 27
	12	57.493 284	43.24 37.	25.242 287	60.20 T	51.020 364	20.97 69	35.785 310	40.97 36
Anvil	22	57.777 293	42.87 5	25.529 296	60.19	51.384 375	19.68	36.095 319	40.61 46
April	I	58.070 298	42.92 48	25.825 300	59.92	51.759 381	19.00 52	36.414 324	40.15 55
	II	58.368 298	43.40 88	26.125 301	59.40 74	52.140 382	19.16 40	36.738 326	39.60 60
	21	58.666 292	44.28	20.420 208	58.66 74	52.522 377	18.76 28	37.064	39.00 65
Mai	I	58.958 282	45.52	20.724 280	57.72	52.899 267	18.48	37.386 314	38-35 65
	11	59.240 266	47.07	27.013	56.63	53.266	18.34 -	37.700 300	37.70 62
	21	59.506 245	48.86 179	27.287 255	55.42 126	53.615 325	18.36	38.000 279	37.07 58
	31		50.85 210		54.16 128		18.55	38.279 254	36.49 <sub>50</sub>
Juni	10	59.751 <sub>217</sub> 59.968 <sub>185</sub>	52.05 210	27.542 <sub>230</sub> 27.772 <sub>198</sub>	1 ~ QQ	53.940 <sub>294</sub> 54.234 <sub>256</sub>	T8.00	38.533 221	35.99 <sub>41</sub>
	20	60.153	52.95 <sub>215</sub> 55.10 <sub>215</sub>	27.970 164	CT 60		TO 42 33	38.754 184	1 25 58
	30		57.25 207	28.134	FO 42	54.490 213 54.703 164	20.11 82	1 28 228	25 20
Juli	9	60 400	59.32 196	0 X 0 EX	10.22	9 54.867 111	20.02	939.081 98	35.12 6
		9		Sinch Colonia	90		93	90	-
	19	60.474 22	61.28 181	28.340 39	48.34 84	54.978 57	21.86	39.179 51	35.06 6
A	29	60.496 =	63.09 160	$28.379 \frac{39}{4}$	47.50 69	55.035 2	22.86	39.230 5	35.12 16
Aug.	8	60.474 62	64.69 138	28.375 46	46.81 55	55.037 =	23.91 105	39.235 40	35.28 23
	18 28	60.412	66.07 113	28.329 83 28.246 16	46.26 39	54.986 99 54.887 41	24.96 99	39.195 82	35.51 30
	20	60.312	67.20 87	110	45.87 25	54.007 141	25.95 89	39.113 116	35.81 32
Sept.	7	60.180 156	68.07 58	28.130	45.62 10	54.746	26.84 76	38.997 145	36.13 33
	17	60.024	68.65	27.989	45.52 -	54.572 106	27.60 58	38.852 164	30.40
2.5.75	27	59.051	68.95	27.831 165	45.54 15	54.376	28.18 28	38.688	30.77 28
Okt.	7	59.671 178	68.96 =	27.000	45.69 28	54.169 205	28.56 16	38.516	37.05 23
	17	59.493 167	68.67 59	27.503 151	45.97 39	53.964 191	28.72 -6	38.345 158	37.28 19
	27	59.326 146	68.08	27.352 130	46.36	53.773 165	28.66	38.187 136	37.47 14
Nov.	6	59.180 118	67.20	27.222	16 8m	53.608 129	28.37	38.051 105	37.61 9
	16	59.062 84	66.04	27.122 66	47 50	53.479 84	27.88 49	37.946 67	37.70 7
	26	1 58.078	64.62	27.056 26	48.24 84	53.395 34	27.22 80	37.879 24	37.77
Dez.	6	58.934 2	62.97 186	27.030 16	49.08 93	$53.361 \frac{37}{19}$	26.42 91	37.855 =	37.82
	16	58.932	61.11	27.046 58	50.01	53.380 73	25.51 98	37.875 65	37.85 4
	26	58.971 82	59.10 200	27.104 99	51.02	53.453 126	24.53 101	37.940	37.89 4
THE .	36	59.053	57.01	27.203	52.07	53.579	23.52	38.049	37.93
Mitt	L Ort	58.372	59.81	26.129	48.93	52.106	20.28	36.743	34.81
	, tg δ	1.030	+0.245	1.004	-0.087	1.269	-0.781	1.072	-o.386
	a'	+2.8	+5.4	+3.2	+5.5	+4.1	+5.7	+3.6	+5.7
<i>b</i> ,	<i>b'</i>	0.00	+0.96	0.00	+0.96	-o.oı	+0.96	-o.or	+0.96

		723) 8 I	raconis	724) &	Lyrae	725) ω Ι	Agnilae	706) 11	Trani
Ta	g	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	726) x (	
	4								Deki.
19	47	9 <sup>h</sup> 12 <sup>m</sup>	+67° 33′	19 <sup>h</sup> 14 <sup>m</sup>	+38° 1′	19 <sup>h</sup> 15 <sup>m</sup>	+11°29′	19 <sup>h</sup> 15 <sup>m</sup>	+53° 15′
Jan.	1	29.13 2	63.85	29.214 64	74.00	5 T7 202	40.05	49.884	60"
	11	29.11 -8	60.28 357	29.278 64	74.09 309	17.392 17.486 131	49.25 196		69.21
	21	29.19	56.70 358	29.390 158	67 OT 309	17.617 165	47.29 194	49.915 97	05.11 345
	31	20.28	53.23 347	20.548	64.06	17.782	45.35 183	50.012 161	62.32 58.98 334
Febr.	10	29.68 30	50.00 323	29.748 237	62.24 238	17.702 195	43.52 166	50.173 221	50.90 309
	Fig					17.977 222	41.00	50.394 274	55.89 273
250	20	30.06	47.13 241	29.985 270	59.86	18.199	40.46	50.668 321	53.16 227
März	2	30.51	44.72 .0-	30.255	57.91	18.443	39.36 73	1 50.909	50.89 173
	12	31.04	42.87	30.552	56.47 88	18.707	38.63	51.349 389	49.16
	22	31.61	41.04 58	30.869 <sub>331</sub>	55.59 29	18.985	38.29	51.738 408	48.04 48
April	I	32.20 61	41.06 -	31.200 339	55-30 =	19.275 296	38.36	52.146 417	$47.56 \frac{7}{16}$
	11	32.81 60	41.15		FF 50		28.82		
	21	33.41 58	41.89 74	31.539 31.878	56.45	19.571 <sub>298</sub> 19.869 <sub>296</sub>	30.60 86	52.563 52.978	47.72 80
Mai	I	33.99 53	43.24 191	32.209 331	57.84 187	20.165 287	39.69 120 40.89 150	52.970 404	48.52
	II	34.52 48	45.15 239	32.527 296	50.7I	20.452	12.20	53.382 381	49.91 192
	21	35.00 40	47.54 279	32.823 267	61.98 259	20.725 273	42.39 173 44.12 192	53.763 349 54.112 208	51.83 <sub>238</sub> 54.21
						253		34.112 308	34.21 277
T'	31	35.40 32	50.33 309	33.090 232	64.57 284	20.978 227	46.04 203	54.420 260	56.98 305
Juni	10	35.72 24	53.42 332	33.322	07.41	21.205	48.07 208	54.680	60.03 305
	20	35.96	50.74 344	33.514 146	70.40	21.402	50.15	54.885	03.29 226
T1:	30	36.10 4	60.18	33.660 98	73.46	21.563	52.22	55.029 80	66.65
Juli	10	36.14 -6	$63.65 \frac{347}{341}$	33.758 46	76.51 296	21.684 79	54.23 190	55.109 15	70.03 332
	19	36.08 16	67.06	33.804 6	79.47 280	27.762	56.13	55.124	
	29	35.92 25	70.34 307	22 408	82.27	0T 700 =	57.87 156	55.073 114	73·35 317 76.52 295
Aug.	8	35.67 34	73.41 278	22712	84.86 231	21.701	59.43	54.959 174	79.47 267
	18	35.33 42	76.19 244	33.638 148	87.17 198	21.740 88	60.77	54.785 229	82.14
	28	34.91 49	78.63 204	33.490 186	89.15 163	21.652	I DT X7	54.556 274	84.46 232
Sept.	H					***1	0,5		194
Depu.	7	34.42 53	80.67 161	33.304 215	90.78 122	21.531 147	62.72	54.282 312	86.40 150
	17	33.09 58	82.28	33.089 236	92.00 80	21.384 166	03.31	53.970 339	07.90
Okt.	27 7	33.31 60	83.40 61	32.853 248	92.80 35	21.218	63.63 5	53.631 354	88.93
0	17	32.71 <sub>61</sub>	84.01	32.605 248	93.15 10	21.043	23	53.277 357	89.47
	-	32.10 60	04.00 48	32.357 239	93.05 58	20.868 165	63.45 50	52.920 348	89.48 - 52
	27	31.50	83.60	32.118 220	92.47 104	20.703 146	62.95	52.572 226	88.96
Nov.	6	40.04	82.58	31.898	91.43	20.557 120	62.18	52.246 <sub>293</sub>	87.92 155
	16	30.41	81.01	31.707, 155	89.94	20.437 88	61.14	51.953 250	86.37 205
- Links	26	29.95 28	78.93	31.552 113	88.03 230	20.349 50	59.85 150	51.703 199	84.32 249
Dez.	6	29.57 29	76.38 294	31.439 65	85.73 262	20.299 10	58.35	51.504 140	81.83 286
	16	29.28 20		27 274		20.289			
	26	20.08	73.44 326 70.18	$31.374_{16}$ $31.358_{-24}$	83.11 286	- 41	56.65 184	51.364 76	78.97 316
1	36	28.99	70.18 347 66.71	$31.358 {34}$ $31.392$	80.25 303 77.22	20.320 72 20.392	54.81 <sub>192</sub> 52.89	51.288 9	75.81 336 72.45
4			1 2 1 A TH	3-1392	11.22	20.392	32.09	51.279	72.45
Mittl		32.80	66.02	31.611	77.74	19.648	54.54	52.636	71.91
sec δ,		2.621	+2.422	1.270	+0.782	1.020	+0.203	1.672	+1.340
	a'	0.0	+6.2	+2.1	+6.4	+2.8	+6.5	+1.4	+6.5
<i>b</i> ,	b'	+0.05	+0.95	+0.02	+0.95	0.00		+0.03	+0.95
			1 72 - 2		THE LOW TO	11 - 2 1 1 A		-	75

Tag 729) τ Draconis		Praconis	728) α Sa	gittarii	730) 8 A	quilae	734) Grb 2	900 Draco	
, i a	8	AR.	Dekl	AR.	Dekl,	AR.	Dekl	AR.	Dekl.
194	47	19 <sup>h</sup> 16 <sup>m</sup>	+73° 15′	19 <sup>h</sup> 20 <sup>m</sup>	-40° 42′	19 <sup>h</sup> 22 <sup>m</sup>	+3° o'	19 <sup>h</sup> 24 <sup>m</sup>	+79° 29′
Jan.	1	30.43	26.17	10.016	71.39 120	47.246	21.57 147	49.30 26	53.30 244
	II	$30.34 - \frac{9}{6}$	22.64 357	10.154 187	70.19 122	47.34 <sup>1</sup> 131		49.04 2	10.86 344
	21	20.40	19.07 357	10.341 230	68.97	47.472 163	-9 66 144	40.02 -	16 25 332
	31	30.60	15.59 348	10.571 269	67.77	47.635 194	17.30 136	10.22	12 00 343
Febr.	IO	30.93 33 47	12.34 291	10.840 301	66.60	47.829 219	76.00	10 67 44	39.63 327
							101	U4	
	20	31.40 57	9.43 246	11.141 330	65.48 106	48.048 241	15.08 75	50.31 82	36.67 253
März	2	31.97 65	6.97	11.471	64.42 98	48.289 261	14.33 45	51.13 98	34.14 203
	12	32.62 73	5.05 131	11.023	63.44 90	48.550 275	13.88	52.11 108	32.11
	22	33.35 76	3.74 67	12.193 284	62.54 79	48.825 288	13.75 =	53.19 116	30.67 81
April	I	34.11 78	3.07 1	12.577 393	61.75 67	49.113 296	13.95	54-35 119	29.86
	11	34.89	3.06	12.970 396	61.08	49.409 299	14.48 82	55.54 118	29.69 48
176	21	25.00	3.71 126	13.300	60.54 54	49.708 298	TEST	r6 70	20 T7
Mai	I	26 40 14	4.97 182	13.760 394	60 16	50.006 291	16.42	57.85 104	31.26 166
	II	37.08 <sub>60</sub>	6.79 231		59.95 2	50.297 280	17.76	58.89 92	32.92 215
	21	37.68 50	9.10 272	TA 576	FO 02 -	50.577 261	19.27 164	50.8T	35.07 258
	Way!	1-00-01-04-0	2/2	340	-/	F-10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		- J	
S. CLEY	31	38.18	11.82	14.862 317	60.10	50.838 238	20.91	60.58 60	37.65 292
Juni	10	38.58 28	14.00	15.179 279	60.48 57	51.076	22.61	61.18	40.57 318
	20	38.86 16	18.13	15.458	61.05 76	51.285 174	24.33 768	61.59 21	43.75 333
	30	39.02 2	41.776	15.693 185	61.81	51.459 135	26.01 160	61.80	47.08 341
Juli	10	39.04	25.01 342	15.878	62.72 105	51.594 94	27.61 148	61.81 =	50.49 340
A Trans	19	38.93 24	28.43 329	16.009	63.77	51.688	29.09 134	61.61	53.89 330
	29	38.69 35	31.72	16.083 74	1 04 02	ET 720	30.43 116	61.22	57.19 313
Aug.	8	38.34 47	24 82 310	T6 000 =	66 120	5T 746 -	27 70	60.63 59	60.32 290
	18	37.87 47 58	66	76 060	67.33	5T.7TT 33	20 57	59.87 92	63.22 259
	28	37.29 66	10 16	15.969 136	68.49 107	51.637 74	22 25	58.95 106	65.81 23
~			213		- T. W 1 14	100	3/	THE RESERVE AND ADDRESS.	2~3
Sept.	7	36.63 74	42.29 169	15.833	69.56	51.529 135	33.92 37	57.89 118	68.04 183
	17	35.89 78	43.98 122	15.000	70.48	51.394 154	34.29 17	56.71 126	69.87 138
014	27	35.11 82	45.20 71	15.461 214	71.21 50	51.240 164	34.46 -3	55.45 133	71.25 88
Okt.	7	34.29 83	45.91 18	15.247 215	71.71 26	51.076 165	34.43 23	54.12	72.13 37
	17	33.46 82	46.09 =	15.032 204	71.97	50.911	34.20 42	52.77 134	72.50 -
	27	32.64 79	45.73	14.828 180	71.98 25	50.754 139	33.78 62	51.43 131	72.33 72
Nov.	6	31.85 79	44.81	14.048	71 72	50.615 114	33.16 81	50.12	71.61 127
	16	31.12 66	43.35 198	14.502 102	71 22	50.501 82	32.35 98	48.89 112	70.34 178
	26	1 30.40	41.37 245	14.400 52	70.53 88	50.419 46	31.37 114	47.77 98	68.56
Dez.	6	29.91 45	38.92 287	$14.400 \frac{53}{1}$	69.65 104	50.373 6	30.23 127	46.79 81	66.29 271
	16	29.46 32	36.05 319	14.348	68.61	50.367 34	28.96	45.98 61	63.58 305
	26	29.14 32		14.403 110	67.47		27.58 143	45.37 40	60.53 332
	36	28.96	29.43	14.513	66.26	50.474 73	26.15	44.97	57.21
-	L Ort	24.64		1 4 5 5 5 5	62.00	40.510	27 57	55.83	54.20
	$\delta$ , $tg \delta$	34.94	27.85	13.016	63.20 —0.861	49.519	27.51 +0.053	5.487	+5.396
	a'	3.471	+3.324 +6.6	1.319	+6.9	+3.0	+7.1	-3.6	+7.3
	b'	—I.I —0.07		+4.2	+0.94	0.00	+0.94	+0.13	+0.93
0,		+0.07	+0.94	-o.o2	1 0.94	0.00	7.94	1.23	.,,,

1											
Ta	g	733) ι	Cygni	732) ß C	ygni <i>pr</i>	736) 52 Sa	gittarii	738) &	Cygni		
		AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.		
19.	47	19 <sup>h</sup> 28 <sup>m</sup>	+51° 36′	19 <sup>h</sup> 28 <sup>m</sup>	+27° 50′	19 <sup>h</sup> 33 <sup>m</sup>	-25° o'	19 <sup>h</sup> 34 <sup>m</sup>	+50° 5′		
Jan.	1	19.455 16	55.79 <sub>336</sub>	32.664 62	45.67 268	26.453 107	16.53 27	58.491 11	49.00 331		
	II	19.471 79	54.43 000	32.726	42.99 267	26.500	16.26	58.502	45.69		
	21	19.550	1 49.03	32.831	40.32 258	20.707	16.26 31 15.95 35	58.573	42.34 227		
	31	19.691	45.12 200 1	32.975 787	37.74 228	20.890	15.00	58.703	39.07 207		
Febr.	10	19.890 251	42.03 276	33.156 213	35.30 208	27.100 243	15.20 45	58.890 238	36.00 276		
1	20	20.141 299	39.87 233	33.369 243	33.28 170	27.349 268	14.75 52	59.128 285	33.24 234		
März	2	20.440	37.54 180	33.612	31.58 125	27 617	14.23	59.413	30.90		
	12	20.770 369	35.74 121	33.879 287	30.33 76	27.000	13.04	59.737	29.08 124		
	22	21.147 301	34.53 59	34.166 303	29.57 23	20.212	12.99 72	00.002	27.84 63		
April	I	21.538 403	33.94 5	34.409 312	29.34 =	20.533 330	12.27 76	00.4/0 392	27.21 -		
	II	21.941 406	33.99 68	34.781 315	29.64 80	28.863 336	11.51 78	60.862 396	27.22 63		
	21		34.67 127	35.090 212	30.44 128		10.73 -8	61.258 390 61.648 375	27.85 122		
Ma	I	44.145	35-94 182	35.409 205	31.72 170	29.551 222	9.95 75	61.648 375	29.07		
	II		37.76 229	35.714 280	33.42 207	29.070 322	9.20 68	02.023 25	30.04		
	21	23.470 316	40.05 269	36.003 267	35.49 236	30.192 305	8.52 59	02.374 316	33.08 264		
	31	23.792 271	42.74 299	36.270 238	37.85 256	30.497 281	7.93 48	62.690 275	35.72 296		
Juni	10	24.003	45.73 227	30.508	40.41	30.778	7.45 25	02.905 226	38.68		
	20	24.282	48.94 334 52.28 338	36.712 165	43.12	31.029	7.10	63.191	41.80		
	30	24.445 <sub>101</sub>	52.28 338	36.877	45.88	31.244	6.91	03.302	45.18		
Juli	10	24.546 38	52.28 55.66 338	36.998 76	48.62 266	31.417 128	$6.86 \frac{3}{10}$	63.474 51	48.55 333		
	19	24 584	50.00	37.074 28	51.28 252	31.545 80	6.96 23	63.525	51.88 322		
	29	24 558	62.21 301	27.102	53.80 252	31.625 31	7.19 36	63.514 72	55.10 303		
Aug.	8	24.470	65.22	27 082	56.12 207	2T 050 -	7.55 44	63.442	58.13 277		
	18	24.323 202	67.97 242	37.083 65 37.018 106	58.19 179	31.639 62	7.99 50	63.311 184	1 00 00		
	28	24.121	70.39 205	36.912	59.98 146	31.577 <sub>101</sub>	8.49 54	63.127 231	63.36 246		
Sept.	7	23.872	72.44 163	36.770 171	61.44 112	31.476	9.03	62.806	65.46 168		
100	17	23.585 315	74.07 117	36.599 193	62 56	31.342	9.50	62.626 298	67.14		
	27		75.24 68	36.406 206	63.30 74	31.184 171	10.05		108.38		
Okt.	7	22.037 333	75.92 18	36.200 207	63.66	31.013	10.47	60.010	60 T2 /3		
	17	22.598 339	$76.10 \frac{10}{35}$	35.993 201	63.62 4	30.838 167	10.82 35	61.688 324	$69.38 \frac{25}{26}$		
	27	22.266	75-75 88	35.792 185	63.17 84	30.671 149	11.07	61.370 203	69.12		
Nov.	6	21.952 285	74.87	35.607 160	62.33	30.522	11.22 5	61.067	68.33 79		
	16	21.667 246	73.48 189	35.447 128	61.09 161	30.400 88	$11.27 - \frac{5}{2}$	60.792 239	67.02 180		
	26	21.421	71.59 234	25 210	59.48	20.2T2	11.24 3	60.553	65.22 225		
Dez.	6	21.222	69.25 273	35.228 <sub>50</sub>	57.53 224	30.265 47	11.12	60.359 142	62.97 265		
	16	21.078 85	66.52	35.178 7	55.29 245	30.261	10.95	60.217 85	60.32 297		
	26	20.993	63.47 326	35.171 38	52.84 261	30.301 84	10.72 27	60.132 26	57.35 210		
5 1 2	36	20.971	60.21	35.209	50.23	30.385	10.45	60.106	54.16		
Mittl	l. Ort	22.149	58.00	34-953	49.67	29.008	8.22	61.134	51.00		
	, tgδ	1.610	+1.262	1.131	+0.528	1.103	-o.466	1.559	+1.196		
	a'	+1.5	+7.5	+2.4	+7.6	+3.6	+8.o	+1.6	+8.1		
Ъ,	<i>b</i> ′	+0.03	+0.93	+0.01	+0.93	-0.01	+0.92	+0.03	+0.92		

The		740) 15	Cygni	741) y A	quilae	743) δ S	agittae	745) a Aq	(uilae 1)
Та	g	AR.	Dekl.	AR.	Dekl	AR.	Dekl.	AR.	Dekl.
19.	47	19 <sup>h</sup> 42 <sup>m</sup>	+37°13′	19 <sup>h</sup> 43 <sup>m</sup>	+10° 28′	19 <sup>h</sup> 44 <sup>m</sup>	+18° 23′	τ9 <sup>h</sup> 48 <sup>m</sup>	+8° 43′
Jan.		TO 428	28,02	8 42 T20	ra"6r	59.168	62"45	8	
Jan.	I	19.438 <sub>31</sub> 19.469 <sub>80</sub>	28.07 295	42.122 67 42.189 103	52.65 181		63.45 220	9.578 68	31.42 169
	21	19.409 80	25.12 299 22.13 292	42.109 103	50.84 180	59.225 95 59.320 122	61.25 221	9.646	29.73 <sub>167</sub> <sub>28.06</sub> <sub>150</sub>
	31	19.673 168	10.21	42.292 <sub>138</sub> 42.430 <sub>170</sub>	49.04 <sub>172</sub> 47.32 <sub>156</sub>	E0 450	59.04 <sub>212</sub> 56.92 <sub>195</sub>	9.751 <sub>138</sub> 9.889 <sub>169</sub>	26.00 159
Febr.	10	19.841 208	19.21 <sub>273</sub> 16.48 <sub>243</sub>	42.600 198	45.76	59.45 <sup>2</sup> 165 59.617 196	54.97 171	10.058 198	26.47 144 25.03 123
2001.				198					
135	20	20.049 243	14.05 205	42.798 223	44.42	59.813 223	53.26	10.256 223	23.80
März	2	20.202	12.00	43.021	43.38	60.036	51.88	10.479 246	22.86 61
	12	20,500	10.42	43.267 266	42.67 34	60.284 268	50.89 57	10.725 264	22.25 26
	22	20.805	. 9.37 48	43.533 280	42.33 6	60.552 284	50.32 12	10.989 281	21.99 -
April	Ι	21.105 332	8.89 -	43.813 292	42.39 45	60.836 297	50.20 34	11.270 292	22.11 50
	11	21.517 339	8.99 66	44.105 300	42.84 82	61.133 304	50.54 78	11.562 300	22.61 86
	21		0.65	44.405	43.66	61.437 305	51.32 119	11.002	23.47 119
Mai	I	24.144	10.85	44.705 297	44.83	01.742	52.51 156	12.103	24.66
	II	22.523	12.55 212	45.002	40.30	62.042	54.07 187	12.401	20.13
	21	22.836 289	14.67	45.289 271	48.01 190	62.332 272	55.94 211	12.750 274	27.83 187
	27					62.604 249	58.05 228		C-4-1/1
Juni	31 10	23.125 <sub>258</sub> 23.383 <sub>221</sub>	17.14 <sub>275</sub> 19.89 <sub>294</sub>	45.560 <sub>249</sub> 45.809 <sub>220</sub>	49.91 203	62.853 219	60.33 239	13.024 <sub>251</sub> 13.275 <sub>224</sub>	29.70 <sub>199</sub> 31.69 <sub>204</sub>
oun	20	23.604	22 82 294	46.029 187	51.94 <sub>209</sub> 54.03 <sub>209</sub>	63.072 184	62.72	13.499 190	33.73 203
	30	23.781 177	22.83 305 25.88 308	46.216	56.12 203	63.256	65.15 240	13.689	35.76 197
Juli	10	23.912 80	28 06	46.364 107	58.15 194	63.400 101	67.55 231	13.841	37.73 187
1975		18	303	118		19			
	19*)	23.992 28	31.99 291	46.471 63	60.09	63.501 56	69.86 218	13.952 67	39.60 172
	29	24.020 =	34.90	46.534 18	01.00 161	63.557 11	72.04 200	14.019 23	41.32
Aug.	8	23.997 73	37.02	46.552 =	1 03.49	$63.568 {33}$	74.04 178	14.042 =	42.00
	18	23.924 119	40.11	46.527 65	64.89 118	63.535 75	75.82 152	14.022 61	44.19 111
	28	23.805 159	42.30 185	46.462 101	66.07 94	63.460	77.34 125	13.961 97	45.30 87
Sept.	7.	23.646 193	44.15 148	46.361	67.01 68	63.349 141	78.59 95	13.864 126	46.17 64
150 TEC	17	23.453 218	45.63 107	46.230	67.69 42	63.208	79.54 64	13.738	46.81 38
	27	23.235 234	46.70 64	46.077 166	68.11 16	63.0450	80.18 32	13.589 162	47.19 13
Okt.	7	23.00I	47.34 19	45.911	68.27 =	62.867 -0-	80.50 -	13.427 167	47.32 =
	17	22.761 236	47.53 =	45.741 165	68.16 36	62.685 178	80.49 34	13.260 162	47.21 36
	27		47.26		67.80	62.507 164	80 TF	13.098 149	1685
Nov.	<sup>27</sup> 6	22.525 <sub>222</sub> 22.303 <sub>200</sub>	46.53 73	45.576 <sub>152</sub> 45.424 <sub>130</sub>	65 75	62.343	70.48	12.040	
2,0,,	16	22.103 168	45.33 119	45.294 101	66.29	62.200	78.49 130	12.822 99	45 40
	26	21.935 131	45·34 163 43·71 202	45.193 <sub>68</sub>	65.17 133	62.085 81	77.19	12.723 66	45.42 106 44.36 125
Dez.	6	21.804 89	41.69 238	1 45 705	63.84 152	62 004	75.62 182	12.657 29	43.11
				-				_	(0
	16	21.715 43	39.31 266	45.094 7	62.32 167	61.960	73.80 200	12.628 8	41.68 156
	26	21.672 4	36.65 285	45.101 46	60.65	61.955	71.80 214	12.636 47	40.12 164
4.35	36	21.676	33.80	45.147	58.89	61.990	69.66	12.683	38.48
Mitt	l. Ort	21.808	30.88	44.348	58.14	61.397	68.10	11.804	37.23
	$t, tg \delta$	1.256	+0.760	1.017	+0.185	1.054	+0.333	1.012	+0.153
	a'	+2.2	+8.7	+2.9	+8.8	+2.7	+8.9	+2.9	+9.1
	b'	+0.02	+0.90	+0.01	+0.90	+0.01	+0.90	0.00	+0.89
27 24		ı Die iährliche Para		7 22 5					

 <sup>1)</sup> Die jährliche Parallaxe (o"208) ist bereits berücksichtigt.
 \*) Bei Stern 745) lies Juli 20.

Tag	749) ß Aq	uilae	748) ε Pa	avonis	751) 91 Sa	ngittarii 💮	752) γ Sa	agittae		
	AR.	Dekl.	AR.	Dekl.	AR.	DekL	AR.	Dekl.		
1947	19 <sup>h</sup> 52 <sup>m</sup>	+6°16′	19 <sup>h</sup> 54 <sup>m</sup>	-73°2′	19 <sup>h</sup> 56 <sup>m</sup>	-35° 25′	19 <sup>h</sup> 56 <sup>m</sup>	+19° 20′		
Jan. 1	40.318 63	16.92	23.71 11	84.40 292	14.662 88	27.15 96	21.706	44.80 220		
II	40.381	15.35 100	23.82	81.48	14.750	26.19	21.751	42.60		
21	40.479 122	13.00	24.07	70.50 206	14.883	25.10	21.834	40.39		
31	40.611 164	12.32	24.45	75.54 -00	15.057	24.07	21.953	38.24		
Febr. 10	40.775 192	10.99 113	24.94 60	72.68 270	15.269 245	22.95	22.107 186	36.26		
20	40.967	9.86 86	25.54 69	69.98	15.514 275	21.81	22.293 214	34.51		
März 2	41.184	9.00	26.23	07.51	15.789	20.00	22.507	33.08 105		
12	41.424	8.44 22	27.00 8	65.31	10.000	19.51	22.747 262	32.03 63		
22	41.685 277	8.22	27.84 88	63.42	16.414	18.37	23.010 281	31.40 17		
April 1	41.902 289	8.36	28.72 92	61.89 114	10./5/ 359	17.27 104	23.291 295	31.23 =		
II	42.251 298	8.85 82	29.64 93	60.75 75	17.116 368	16.23 96	23.586 304	31.52 74		
21	42.549	9.67	30.57	00.00 32	17.404	15.27 86	23.090 307	32.26 116		
Mai r	42.051 200	10.81	31.51	59.68 =	17.057	14.41 72	24.197 305	33.42		
II	43.150 291	12.22 161	32.43 89	59.79 53	10.229	13.69 55	24.502 295	34.96		
21	43.441 277	13.83	33.32 83	60.32	10.593 349	13.14 38	24.797 280	36.81 212		
31	43.718 256	15.61 187	34.15 77	61.26	18.942 326	12.76 18	25.077 257	38.93 231		
Juni 10	1 43.974 200	17.48	34.92 67	02.00	19.200	12.58 =	25.3340	41.24		
20	44.204	19.40	35·59 <sub>58</sub>	04.30	19.503	12.62	25.562	1 43.07		
30	44.401	21.30 184	36.17	66.33 228	19.820	12.86	25.750 100	40.14 247		
Juli 10	44.560 118	23.14 174	36.62 45	68.61 248	20.034 164	13.31 63	25.911 111	48.61 239		
20	44.678 75	24.88	36.94 19	71.09 261	20.198	13.94 79	26.022 67	51.00 226		
29	44.753 31	20.40	37.13 5	73.70 264	20.309 57	14.73	26.089 21	53.26 200		
Aug. 8	44.784 = 13	27.87	$37.18 - \frac{3}{9}$	76.34 260	20.366 4	15.65 100	26.110 =	55.35 187		
18	44.771 54	29.09 101	37.09 23	78.94 245	20.370 - 48	16.65	26.086 66	57.22 -60		
28	44.717 90	30.10 78	36.86 36	81.39 222	20.322 95	17.69 102	26.020 104	58.84 135		
Sept. 7	44.627 121	30.88	36.50	83.61	20.227 135	18.71 97	25.916	60.19 105		
17	44.506	31.43 32	30.05 54	85.52	20.092 165	19.68 86	25.701	61.24 73		
27	44.362	31.75 10	35.51 61	87.03 105	19.927	20.54 70	25.022	61.97		
Okt. 7	44.203 164	31.85 =	34.90 63	88.08	19.742	21.24 53	25.447	62.38 8		
17	44.039 161	31.72 36	34.27 63	88.63	19.548 190	21.77 32	25.265 179	62.46 26		
27	43.878 148	31.36 58	33.64 <sub>61</sub>	88.64	19.358 176	22.09 10	25.086 167	62.20 60		
Nov. 6	43.730	30.78	33.03	88.10	19.182	22.19 =	24.919 148	61.60		
16	43.603 101	30.00 99	34.49	87.03	19.031	22.08	24.771	60.68		
26	43.502 68	29.01	32.02	1 05.40	18.914	21.75 51	24.649 90	59.44 153		
De <b>z.</b> 6	43.434 33	27.84 132	31.66 36	83.48 237	18.837 32	21.24 68	24.559 54	57-91 178		
16	43.401	26.52	31.43 11	81.11 265	18.805 15	20.56 81	24.505 16	56.13 198		
26	43.405 42	25.08 153	31.32 -3	78.46 286	18.820 62	19.75 93	24.489 =	54.15 213		
36	43.447	23.55	31.35	75.60	18.883	18.82	24.512	52.02		
Mittl Ort	42.537	22.93	29.98	72.24	17.384	16.65	23.922	49.25		
sec δ, tg δ		+0.110	3.431	-3.282	1.227	-0.711	1.060	-⊢o.351 .		
a, a'	+2.9	+9.5	+6.9	+9.6	+3.9	+9.7	+2.7	+9.7		
b, b'	0.00	+o.88	-0.10	-+o.88	-0.02	+0.87	+0.01	+0.87		

5	754) & Pavonis 1)				S (2)			The Barton	1-16-4
Ta	ıg	754) 8 P	avonis 1)	756) & A	quilae	759) x C	ephei	757) 31 0	<sup>1</sup> Cygni
		AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
194	47	20h 3m	-66° 18′	20 <sup>h</sup> 8 <sup>m</sup>	o° 58′	20 <sup>h</sup> 10 <sup>m</sup>	+77° 32′	20 <sup>h</sup> 11 <sup>m</sup>	+46° 34′
Jan.	ı	28.03	83.56 262	31.992	55-34 109	36.98 28	71.91	55.168	16"17
pull.	II	28.12 20	80.94 270	32.046 89	56.43 107	26.60	68.71	EE 120 -	46.47 <sub>304</sub> 43.43 <sub>316</sub>
	21	28.32 28	78.24 271	32.135 122		26.40	65 22 339	EE The 20	
	31		75.53 265	32.257 153	EQ =0	06 00	61.86	55.244 132	27 72 323
Febr.	10	28.97 37 28.97 44	72.88 254			26 57	58.47 339		34.09 280
				102	**	3/		3	
36"	20	29.41 29.92 56	70.34 236	32.592 208	60.06	36.94 55	55.27 289	55.559 230	31.29 244
März	2	29.92 56	67.98 213	32.800 232	60.53 22	37.49 70	52.38 246	55.789 272	28.85 199
	12	30.48 62	65.85 188	33.032 253	60.75 6	38.19 82	49.92	56.061 309	26.86
A '1	22	31.10 65	63.97	33.285 272	60.69	39.01 92	47.98	50.370 220	25.38 90
April	I	31.75 68	62.40 124	33.557 287	60.34 64	39-93 98	46.62 73	56.709 362	24.48 30
	11	32.43 70	61.16 89	33.844 298	59.70 91	40.91 102	45.89 9	57.071 375	24.18 32
Colo. No.	21	33.13	60.27 51	34.142	58.79 115	41.93 100	45.80 = 55	57.440	24.50 91
Mai	I	33.83 60	59.76 12	34.447 205	57.64	42.93 97	46.35 115	57.825 379	25.41 145
	II	34.52 68	$59.64 = \frac{1}{28}$	34.752 300	56.28 151	43.90 90	47.50	1 58.199 061	26.86
	21	35.20 64	59.92 67	35.052 288	54.77 161	44.80 80	49.21	58.560 336	28.82 240
	31	35.84 60	60.59 105	35.340 270	53.16 166	45.60 69	51.43 264	58.896 304	31.22 274
Juni	10	36.44	01.04	35.610	51.50 ,66	46.29	54.07	59.200 264	33.96 302
	20 .	30.91	63.04	35.855 215	49.84	46.83 39	57.07 225	59.464	36.98 322
	30	37.43	64.76	36.070	48.22	47.22 23	00.32	59.681 165	40.20 331
Juli	10	37.80 37	66.75 221	36.249 139	46.69 141	47.45 5	63.75 343	59.846 108	43.51 333
	20	38.08 18	68.96 236	26.288	45.28 125	47.50	67.27 353	59.954 50	46.84 328
	29	38.20 8	71.32 243	<sup>25</sup> 36.483 95	44.03 108	47.39 29	1 10.00	2660.004 =	50.12 314
Aug.	8	38.34 - 3	73.75	36.534 7	42.95 89	47.10 45	74.25 331	59.995 67	53.26 295
	18	38.31	76.18	36.541 =	42.06	46.65 59	1 //.50 - 0	59.928	56.21 -60
	28	38.18 23	78.50 215	36.505 74	41.36	46.06 74	80.64 279	59.807 169	58.89 237
Sept.	7	37.95 30	80.65 188	36.431 105	40.84	45·32 85	83.43	59.638 211	61.26
	. 17	37.65 36	82.53	36.326	40.52 15	44.47 95	05.00	59.427	03.25
	27	37.29 41	84.07	36.195	$40.37 \frac{3}{2}$	43.52 95	87.93 159	59.183 260	64.84
Okt.	7	36.88	85.21 68	30.040	40.39 19	42.49 108	89.52 110	58.914	65.99 66
	17	36.44 44	85.89 19	35.890 155	40.58	41.41 110	90.62 56	58.632 285	66.65 17
	27	36.00 41	86.08	35.735 145	40.00	40.31 110	OT T8	58.347 278	66.82
Nov.	6	35.59 38	85.78	35.590 126	AT 40	39.21	01.10	58.000	66.48 34 85
MERKEL	16	1 35.21	84.98	35.464 102	42.02	38.14 101	90.63	57.809 234	65.63
	26	34.89 32	83.71 168	25 262	42.77 86		109.50 768	57.575 199	04.20
Dez.	6	34.65	82.03 205	35.291 38	43.63 95	36.21 <sub>80</sub>	87.82 219	57.376	62.45 225
	16	34.50 6	79.98 233	35.253 2	44.58 103	35.41 66	85.63 263	57.219 110	60.20 261
	26	34.44 - 4	77.65 233	25 25T -	45.61 107	2475	83.00 300	57.109 60	57.59 289
	36	34.48	75.11	35.285	46.68	34.25	80.00	57.049	54.70
M:++1	l Ort	20.55	70 FQ		48 79	42.60	60.07	57.673	47.17
	l. Ort , tg δ	32.75	70.78 -2.280	34.205	48.18 —0.017	4.639	69.97 +4.530	1.455	+1.057
	a'	2.490		1.000	-0.017 +10.7	-2.0	+10.8	+1.9	+10.9
	<i>a b'</i>	+5.7 -0.08	+-10.3 + 0.86	+3.I 0.00	+ 0.85	+0.16	+ 0.84	+0.04	+ 0.84
0,	U	1 -0.00	- 0.00	1 0.00	, 0.05	0.10	0.04	100000000000000000000000000000000000000	

<sup>1)</sup> Die jährliche Parallaxe (o."174) ist bereits berücksichtigt.

Ta		758) 33 (	Cygni	760) 24 Vu	lpeculae	761) α² Ca	pricorni	765) Y (	Cygni
1.0	8	AR.	Dekl.	AR.	Dekl.	AR.	Dekl	AR.	Dekl.
19	47	20 <sup>h</sup> 12 <sup>m</sup>	+56°23′	20 <sup>h</sup> 14 <sup>m</sup>	+24° 30′	20 <sup>h</sup> 15 <sup>m</sup>	-12°42'	20 <sup>h</sup> 20 <sup>m</sup>	+40° 4′
Jan.	ı	7.126	78.23 319	28.713 20	20.72	4.612 56	46.93	17.117	68.77 284
	II	7.054 4	75.04 334	28.733	18.38 238	4.668	47.32 39	17.098 = 19	05.93
	21	7.050 66	11.10	28.792 06	16.00	4.760	47.66	17.126 76	02.99
	31	7.116	08.34	28.888	13.05	4.886	47.91	17.202	60.04 283
Febr.	10	7.251 201	05.09 302	29.021 168	11.44 199	5.043 186	48.06	17.324 166	57.21 261
	20	7.452 262	62.07 267	29.189 200	9.45 167	5.229 213	48.07	17.490 208	54.60 227
März	2	7.714	59.40	29.389	7.78 128	5.442 227	47.92 33	17.698	52.33 186
	12	8.031	57.18 169	29.619 256	6.50 85	5.679 260	47.59	17.945	50.47 136
	22	0.193	55.49 109	29.875 278	5.65 37	5.939	47.08	18.225 208	49.11 81
April	I	8.790 428	54.40 47	30.153 296	$5.28 \frac{5}{12}$	6.218 295	40.38 88	18.533 331	48.30 24
	II	9.224 444	53.93 17	30.449 309	5.40 <sub>61</sub>	6.513 307	45.50 103	18.864 345	48.06
	21	9.668 448 10.116 439	54.10	30.750 314	6.01	0.020	44.47 116	19.209 252	48.40 90
Mai	I	10.116	54.90	31.072 315	7.00	1.130 217	43.31 124	19.501 351	49.30 143
	II	10.1.1.1	50.29 102	31.387 307	0.50 186	1.453 214	42.07 129	19.912 341	50.73 190
	21	10.973 387	58.22 239	31.094 293	10.44 217	1.707 303	40.78 129	20.253 341	52.63 232
	31	11.360 345	60.61 279	31.987 272	12.61 242	8.070 286	39.49 125	20.575 295	54.95 264
Juni	10	11./05	03.40	32.259 242	15.03	8.356	38.24 118	20.870 262	57.59 201
	20	11.990	00.49 222	32.502	17.00 267	8.618	37.06	21.132 220	60.50 308
T 1.	30	12.232 160	09.81	32.711 169	20.27	8.850	36.00 92	21.352	03.58
Juli	10	12.401	73.26 350	32.880 126	22.97 265	9.040 155	35.08 76	21.526 174	00.75 318
	20	12.502 30	76.76	33.006 80	25.62	9.201	34.32 60	21.649 70	69.93 313
1000	29	12.532 42	00.23 225	<sup>26</sup> 33.086 33	20.10 230	9.311 65	33.72 42	21.719 16	73.00 200
Aug.	8	12.490 110	83.58 216	33.119 =	30.55 218	9.376 19	33.30 26	21.735 37	76.00 280
	18	12.380 174	86.74 291	33.105 58	32.73 193	9.395 =	33.04 10	21.698 87	78.86 255
	28	12.206 232	89.65 259	33.047 98	34.66 165	9.370 65	32.94 4	21.611	81.41 224
Sept.	7	11.974 283	92.24 222	32.949 132	36.31 134	9.305 99	32.98 16	21.478	83.65 190
	17	11.691 324	94.46 180	32.817 158	37.65 100	9.206 127	33.14 24	21.300	85.55 151
Okt.	27	11.30/	96.26	32.659 177	38.65 66	9.079 146	33.38 32	21.102 226	87.06 109
UKI.	7	1 11.014	97.59 83	32.482 188	39.31 29	8.933	33.70 37	20.876	88.15 65 88.80 18
	17	10.043 377	98.42 31	32:294 189	$39.60 \frac{3}{8}$	8.778 155	34.07 40	20.636 244	
Nov.	<sup>27</sup>	10.266	98.73 24	32.105 180	39.52 46	8.623 145	34.47 42	20.392 238	88.98 30
MOV.	16	9.095	98.49 78	31.925 164	39.06 83	8.478 128	34.89 44	20.154 222	88.68 78
	26	9.544 222	97.71 133	31.761 140	38.23 119	8.350 102	35.33 44	19.932 199	87.90 124
Dez.	6	9.222 <sub>281</sub> 8.941 <sub>232</sub>	96.38 <sub>184</sub> 94.54 <sub>230</sub>	31.621 111 31.510 78	37.04 <sub>152</sub> 35.52 <sub>182</sub>	8.248 8.176 72	35.77 44 36.21 44	19.733 <sub>168</sub> 19.565 <sub>131</sub>	86.66 <sub>169</sub> 84.97 <sub>209</sub>
F 15.	16	8.709 175	92.24 271	21.422	33.70 206	8 720	26.65	10.424	82.88 242
	26	8.534 111	89.53 303	2 7 20 7	31.64 224	Q TOR -	27 07	TO 244	80.46 270
12.3	36	8.423	86.50	31.389	29.40	8.174 37	37.47	19.344 46	77.76
Mittl	. Ort	9.959	77.86	30.919	24.24	6.892	37.99	19.476	69.95
	, tg δ	1.807	+1.505	1.099	+0.456	1.025	-0.226	1.307	+0.842
	a'	+1.4	+10.9	+2.6	+11.1	+3.3	+11.1	+2.2	+11.5
	b'	+0.05	+ 0.84	+0.02	+ 0.83	-0.01	+ 0.83	<b>⊣-0.03</b>	+ 0.82

To		764) a P	avonis	1535) 42	Cygni	767) 9 (	Cephei	768) s De	elphini
Ta	rg	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
194	17	20 <sup>h</sup> 21 <sup>m</sup>	-56° 54′	20 <sup>h</sup> 27 <sup>m</sup>	+36° 16′	20 <sup>h</sup> 28 <sup>m</sup>	+62°48′	20 <sup>h</sup> 30 <sup>m</sup>	+11° 7′
Jan.	I	24.464	38.47 218	16.709	35.22 269	38.51	57.92 313	38.663	13.68 166
o wix.	II	24 518	36.29 230	T6 602 -	32.53 279	38.36 7	54·79 333	28.685	12.02 168
	21	24.639 187	33.99 230	T6 7T0	29.74 <sub>280</sub>	$38.29 \frac{7}{2}$	51.46	28.742	10.34 163
	31	24.826	31.61 239	16:790 71	26.94 269	38.31	18.06	28 822	8.71
Febr.	10	25.073 302		16.905 156	24.25 248	38.42	44.71 335	38.956	7.21
			235			and the second second		-33	
Mann	20	25.375 353	26.87 226	17.061 196	21.77 216	38.61 26	41.54 287	39.111 184	5.90 106
März	2		24.61 214	17.257 233	19.61 176	38.87	38.67 246	39.295 211	4.84 74
	12	26.125 437	22.47 196	17.490 265	17.85 128	39.21 41 39.62	36.21 195 34.26 127	39.506	4.10 39
Anvil	22	20.502 470	20.51	17.755 293	16.57 76	39.02 45	00 -3/	39.743 260	3.71
April	Ι	27.032 497	18.76	18.048 293		40.07 49	/3	40.003 278	3.71 38
	II	27.529 516	17.24 123	18.364 331	15.60 35	40.56 41.08 52	32.14 10	40.281 293	4.09 76
	21	20.045	16.01	10.095	15.95	41.08	32.04 -	40.574	4.85 112
Mai	I	28.573 529	15.08 61	19.035	16.84	41.60 52 41.60 52	32.57	40.877	5.97 144
	II	29.102	14.47 26	19.3/0 222	10.24 ,96	42.12	33.71 170	41.184 304	7.41 170
	21	29.624 504	14.21 -9	19.709 318	20.10 225	42.62 46	35.41 222	41.400 294	9.11 192
	3 <b>T</b>	30.128 474	14.30	20.027 294	22.35 257	43.08 41	37.63 265	41.782 278	11.03 208
Juni	10	30.602 434	14.74 79	20.321	24.92 282	43.49 26	40.28	42.000	13.11 216
	20	31.030 282	15.53	20.583	27.74 298	43.85 28	43.29 228	42.314	15.27 220
	30	31.419	16.65	20.808	30.72 308	44.13	40.57 246	42.539	17.47 216
Juli	10	31.741 255	18.06 141	20.989 134	33.80 308	44.34 13	50.03 356	42.729 149	19.63 209
	20	31.996 180	19.72	21.123 83	36.88 <sub>303</sub>	44.47 4	53-59 358	42.878 107	21.72 197
	29*)	<sup>28</sup> 32.176 <sub>102</sub>	21.58 199	27 200	39.91 290	44.51	57.I7	42.985 62	23.69 180
Aug.	8	32.278 23	23.57 206	$30^{21.236} \frac{30}{20}$	42.81 270	30 44.47 4	00.07	3°43.047 18	25.49 160
	18	32.301 $\frac{23}{54}$	25.63	21.216 60	45.51 24T	44.35 20	04.03 214	43.065 =	27.09 128
	28	32.247	27.68 196	21.147 113	47.98 217	44.15 27	67.17 286	43.039 65	28.47
Sept.	7	32.122 189	29.64 178	21.034 152	50.15 184		70.03 251	42.974	29.61 89
	17	31.933 241	31.42	20.882 183	51.99 146	43.55 39	72.54 211	42.875 127	30.50 64
-	27	31.692 280	32.96	20.699 206	53.45 107	43.16 42	74.65 166	42.748	31.14 37
Okt.	7	OT ATO	34.19 87	20.493 219	54.52 64	42.74	76.31 117	42.601 158	31.51 10
	1.7	31.110 309	35.06 46	20.274 225	55.16 20	1 12 2X	77.48 64	42.443 161.	31.61 =
	27	30.801 298	25 52	20.049 219	55.36 26	AT 82	78.12	42.282	31.46
Nov.		30.503 298	25 55 -	TO 820	TO		78 20 -	42.128	31.04 67
	16	30.231 232	24.14	19.625 183	55.10 72 54.38 116	1 40.00	77.71 105	41.987	30.37
	26	29.999 181	35.15 82 34.33 <sub>121</sub>	19.442	53.22 158	40.48 39	76.66	41.866	29.46
Dez.	6	29.818	33.12 156	19.287 121	51.64 196	40.09 39	75.06 210	41.772 64	28.33 132
	16	20 607	31.56 185	1 - 2 111 - 3	49.68 229		72.96 255		27.01 149
	26	20 642 =	29.71 208	19.083 83	47.39 255	39.50 20	70.41 292	$41.677 \frac{31}{3}$	25.52 159
	36	29.656	27.63	19.043	44.84	39.30	67.49	41.680	23.93
3/1/11	20000		CHANGE OF		AVES-112	and the latest the same	r6 00	40 705	19.16
	tl. Ort δ, tg δ		24.44	18.997	36.70	41.67 2.189	56.02	40.795	+0.197
	o, ty o $a'$	Company of the Compan	-1.534	1.240	+0.734 +12.0	+1.0	+1.947 +12.1	+2.9	+12.2
	b, a $b'$	+4.7	+11.6	+2.3	+ 0.80	+0.08	+ 0.80	+0.01	+ 0.79
9	, 0	<b> </b> -0.06	+ 0.82	1+0.03	7 0.00	1 10.00	, 0.00	1	

<sup>\*)</sup> Bei Stern 1535), 767) und 768) lies Juli 30.

		770) 72 I	Praconis	769) α	Indi	1539) 29 V	ulneculae	773) v Ca	pricorni
Tag	g	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
-	319								
194	7	20 <sup>h</sup> 32 <sup>m</sup>	+74° 46′	20 <sup>h</sup> 33 <sup>m</sup>	-47° 28′	20 <sup>h</sup> 36 <sup>m</sup>	+21° 0′	20 <sup>h</sup> 36 <sup>m</sup>	-18° 19′
Jan.	I	9.03 36	27.20 306	47.895 40	54.62 167	7.050	46.97 208	59.799 27	46.41
	II	8.67 22	24.14	47.935 40	52.95 183	7.055	44.89 215	50.836	16.12
	21	8.45 7	20.83 331	48.029 144	51.12	7.005	42.74 212	E0 000 /3	16 26
	31	8.38	17.41 342	48.173 191	49.20 198	7 172	40.62 201	60.016	16.20
~ .	10	8.48 24	13.99 342	48.364 236	47.22 201	7.284 147	38.61 201	60 TE6 140	15 02
	100	24	327				17749	-/-	T-
	20	8.72 39	10.72	48.600 278	45.21 199	7.431 179	36.80	60.327 200	45.51 54
März	2	9.11 40	1./1 262	48.878 314	43.22 194	7.610 210	35.20 118	60.527 226	44.97 69
	12		5.09 213	49.192 348	41.28 186	7.820 237	34.08 78	60.753 252	44.28 84
April	22 I	10.28 73	2.96 158	49.540 378	39.42 174	8.057 263	33.30 35	61.005 275	43.44 98
Apin	1	79	1.38 97	49.910 402	37.68 158	8.320 283	32.95 =	61.280 294	42.46
	II	11.80 84	0.41 33	50.320 422	36.10	8.603 300	33.07 58	61.574 311	41.36 120
	21	12.64 85	0.08 $\frac{33}{32}$	50.742	34.70 118	0.903	33.65	1 01.005	40.16
Mai	1	13.49 o.	0.40	51.177 441	33.52 93	9.213	34.66	02.200 00	38.88
	II	14.32	I.33	51.010	32.59 65	9.527	30.08	02.534 228	37.58
	21	15.11 79	2.84 205	52.056 438	31.94 36	9.838 301	37.85 207	62.862 320	36.28
	31	15.83 64	4.89 251	52.483 407	31.58	10.139 283	39.92 230	63.182	35.03 116
	10	16.47 53	7.40	52.890 376	27 72 =	10.422	42,22	63.182 63.488	33.87
	20	17.00 41	10.29 319		27 70	10.681	42.22 246 44.68 255	63.772 256	
	30	17.41 28		53.603 337	32.36 86	10.908 191	47.23 258	64.028 221	21.04
~	10	17.69 15	16.89 341 16.89 355	53.892	33.22 112	11.099 150	49.81 255	64.249 181	31.23 71
	-		355		T				3-
	20	17.84	20.44 360	54.127 174	34.34	11.249 105	52.36 245	64.430 136	30.71 33
7	30	17.84 13		54.301 111	35.68	11.354 59	54.81 231	64.566 90	30.38 14
Aug.	8 18	<sup>31</sup> 17.71 <sub>27</sub>	27.00	51.412 45	37.19 163	11.413 12	57.12 211	64.656 <sub>42</sub> 64.698 <del>4</del>	30.24 - 3
	28	17.44 41	32.0 327	54.457 19	38.82 168	11.425 31	59.23 188	64.693	30.27 19
	20	17.03 52	34-32 301	54-438 78	40.50 166	11.394 72	61.11 162	т/-	30.40 32
Sept.	7	16.51 62	37·33 <sub>270</sub>	54.360 131	42.16	11.322 108	62.73	64.646 85	30.78 42
511	17	15.89 71	40.03 221	54.229 176	43.73 TA2	II.214 a	04.00	64.5616	31.20 48
	27	15.18	42.34 188	54.053 200	45.15	TT.076	05.08	64.445 138	31.68
Okt.	7	14.39 84	44.22	53.844 220	46.34 92	10.910	65.78	04.307	32.20
1	17	13.55 87	45.61 87	53.615 236	47.26 61	10.747 175	66.15 2	64.155 156	32.72 50
357-311	27	12.68 88	46.48 22	53-379 230	47.87 26	10.572	66.17	63.999 150	33.22
Nov.	6	II.80 .	46.80	53.149 211	48 T2	10.401	6-8- 3-	63.849	22.67 43
1-1-	16	10.03	46.54 84	52.938 180	18 01	10.243	65 20	63.713 113	24 07
	26	10.11 77	45.70 141	52.758 141	47.60	10.104 113	64.21 99	63.600 86	21.1T
Dez.	6	9.34 68	44.29 195	52.617 94	46.82 109	9.991 84	62.91 158	63.514 53	34.68 27
	-6		and the same		-		- State State State	23	an additional
	16 26	8.66 8.00 57	42.34 243	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	45.73 135	9.907	61.33 181	63.461	34.88
	36	8.09 <sup>57</sup> 7.64 <sup>45</sup>	39.91 <sub>283</sub> 37.08	52.489 9	44.38 157 42.81	9.856 9.841	59.52 199	63.442 <del>18</del> 63.460	35.00 <sub>6</sub> 35.06
	30	7.04	31.00		42.01	9.041	57.53	3,400	33.00
MittL	Ort	13.75	24.09	50.841	40.39	9.191	50.71	62.064	35.84
sec δ, t			+3.674		-1.090		+0.384	STATE OF THE PARTY	-0.331
a, a		-o.8	+12.4	+4.2	+12.5		+12.6		+12.7
b, b		+0.15	+ 0.79	-0.05	+ 0.78	+0.02	+ 0.78	-0.01	+ 0.77

10:1		774) α I	)elnhini	777) ∝	Cvoni	775) β I	Pavonis	780) ε Cygni	
Та	g	AR.	Dekl	AR.	Dekl.	AR.	Dekl	AR.	Dekl.
-	1-10								
194	47	20 <sup>h</sup> 37 <sup>m</sup>	+15°43′	20 <sup>h</sup> 39 <sup>m</sup>	+45° 5′	20 <sup>h</sup> 40 <sup>m</sup>	-66° 23′	20 <sup>h</sup> 44 <sup>m</sup>	+33° 45′
Jan.	1	8.385	21.61 185	34.998 57	24.74 283	8.11	60.22 260	1.672	73.43 249
	II	8.396 46	19.76 189	34.94I 8	21.91 299	8.11 8	57.62 277	T 645 -	70.94 262
	21	8.442 81	17.87	34.933 =	18.02	8.19 18	54.85 287	T.650	68.32
	31	8.523 114	16.0I	34.977 95	15.88	8.37 .6	51.98	1.714 97	05.07 256
Febr.	10	8.637 146	14.28 173	35.072 144	12.90 279	8.63 35	49.07 286	1.811 137	63.11 238
	20					8 08			
März	20	8.783 <sub>178</sub>	12.73 128	35.216 <sub>193</sub>	7.62 210	8.98 42	46.21 276	1.948 2.125 214	60.73 209
111012	12	8.961 <sub>207</sub> 9.168 <sub>234</sub>	10.50 95	35.409 239 35.648 278	7.02 210	9.40 48 9.88 55	43.45 259 40.86 239	2.339 247	58.64 172 56.92 127
	22	9.402 258	0.02	35.040 278	5.5 <sup>2</sup> 163 3.89 108	10.43 55	38.47 212		55.65
April	I	9.660 279	0.76	35.926 313 36.239 342	1 2 Xr	11.02 64	36.35 183	2.500 277 2.863 303	F4 88 //
			9.70 25		2.01 50			303	
	11	9.939 294	10.01 67	36.581 361	2.31 9	11.66 66	34.52 148	3.166 321	54.63 29
	21	TO 222	10.68	30.942	2.40 68	12.32 69	33.04 111	3.40/ 222	54.92 81
Mai	1	10.530	11.74	37.315 375	3.08 123	13.01 69	31.93 72	3.020 337	55.73 132
	II	10.04/ 208	13.17	37.690 368	4.31	13.70 69	31.21 30	4.157 334	57.05 177
	21	11.155 298	14.91 199	38.058 350	6.06 220	14.39 67	30.91 12	4.491 322	58.82 216
	31	11.453 282	16.00	38.408 325	8.26	15.06 63	31.03	4.813 303	60.98 248
Juni	10	11.735 258	19.00	38.733 290	10.05 280	15.69 59 16.28 59	31.58 55	5.116 274	03.40
	20	11.993	21.39 238	39.023 248	1 T2.7/	16.28 59	32.53 133	5.390 240	00.10
	30	12,222	23.77	39.271 199	16.86 326	16.80 52	33.86 168	5.030	69.10 301
Juli	IO	12.415	26.14 232	39.470 147	20.12 332	17.24 44 35	35.54 197	5.830 154	72.11 303
	20		28 46	A LEE			The state of the s		
	30	12.569 109	28.46	39.617 90	23.44 331	17.59 <sub>26</sub> 17.85 <sub>16</sub>	37.51 220	5.984 105	75.14 298 78.12 287
Aug.	8	T2 742	30.67 205 32.72 186	39.707 $32$ $39.739$ $25$	26.75 321 29.96 305	18.01 5	39.71 <sub>237</sub> <sub>42.08 <sub>245</sub></sub>	3 6 TAA 55	80.99 270
6.	18	T2 762 -	24 58	20 714	33.01 283	$18.06 - \frac{5}{6}$	44.53 244	6.740	83.69 247
	28	TO 728	36.21 139	39.635 79	35.84 255	18.00	46.97 234	6.105 88	86.16
				and the same of th					220
Sept.	7	12.674 100	37.60	39.506 174	38.39 222	17.85 24	49.31 215	6.017 128	88.36 189
	17	12.574 128	38.71 84	39.332	40.61 183	17.61 32	51.46 188	5.889 160	90.25
01-1	27	12.446	39-55 54	39.122 238	42.44	17.29 38	53.34 152	5.729 185	91.78 116
Okt.	7	12.297	40.09 24	38.884 257	43.85 97	10.91	54.86	5.544 201	92.94 75 93.69 72
	17	12.136 165	40.33 -	38.627 265	44.82 48	16.49 44	55.96 63	5.343 207	93.09 32
	27	11.971 161	40.28 36	38.362 264	45.30 2	16.05 44	56.59 13	5.136 206	94.01
Nov.	6	11.810	39.92 65	38.098	45.28	1 15.01	56.72 =	4.030	
	16	11.661 129	39.27 93	37.845 222	44.76 102	15.20	56.33 90	4.735	93.90 54
5015	26	11.532 104	38.34	37.012	43.74 150	1 14.03 21	55.43 127	7.1.10 7.72	92.38 120
Dez.	6	11.428 74	37.15 143	37.407 170	42.24 195	14.52 23	54.06 180	4.406	90.99 176
	16	TT 254		37.237 129	40.29 234	14.29 15	52.26 217	4.285 88	89.23 209
	26	TT 2T2	35·72 <sub>163</sub> 34.09 <sub>177</sub>	37.108 85	37.95 <sub>265</sub>	14.14 6	50.09 247	4 107	87.14 236
	36	11.303	32.32	37.023	35.30	14.08	47.62	4.148 49	84.78
( ) L	15		200	01.0		-349 =0	7-3		0
	. Ort	10.507	26.26	37.410	24.48	12.45	44.09	3.890	74.80
	, tg δ	1.039	+0.282	1.416	+1.003	2.497	-2.288	1.203	+0.669
	a'	+2.8	+12.7	+2.0	+12.9	+5.4	+12.9	+2.4	+13.2 + 0.75
0,	b'	10.0+	+ 0.77	+0.04	+ 0.77	<del>-</del> 0.10	-+ o.77	+0.03 T. 47	- 1

L 47

-		783) n (	Cephei	781) € A	quarii	785) β	Indi	786) 32 Vi	ulpeculae
Tag		AR.	Dekl	AR.	DekL	AR.	Dekl	AR.	Dekl.
1947	177	20 <sup>h</sup> 44 <sup>m</sup>	+61° 37′	20 <sup>h</sup> 44 <sup>m</sup>	-9° 41′	20 <sup>h</sup> 50 <sup>m</sup>	-58° 39′	20h 52m	+27° 50′
Jan.	ı	9.81	59.60 <sub>298</sub>	46.310 26	37.07	37.545 2	37.20 221	15.818	76.07 226
I	15 51	0.64	76 62	16 226	37.58	25 540	34.99 241	T 5 505 -3	73.81 237
2		0.55	70 47 321	46 207	28.02 TJ	24 620	32.58 255	T5.800	71.44 239
3	1	0.55	50.00	46.489 124	28 28 33	37.008 <sub>134</sub> 37.742 <sub>198</sub>	30.03 261	TE 862 55	69.05 230
	0	9.62 7	46.78 331	46.613	38.62 8	37.940 259	27.42 262	15.953 128	66.75 213
	THE		310						
350	0	9.78 23	43.62 289	46.767 183	38.70 38.61 9	38.199 316	24.80 258	16.081	64.62 186
	2	10.01 30	40.73 <sub>251</sub> 38.22 <sub>204</sub>	46.950 210		38.515 368	22.22 248	16.245 199	62.76
	2	10.31	26 -0 204	47.160 236	38.31 51 37.80 72	38.883 415	19.74 233	16.444 232 16.676 260	60 16
	I	11.11 43	24 70	47.396 258 47.654 279	37.08 72	39.298 456	17.41 214	16.936 286	50.52
P		46	34.70 87		93	39.754 491	15.27 191		59-53 14
I	1	11.57 49	33.83 24	47.933 297	36.15	40.245 519	13.36 164	17.222 305	59.39 36
	Ι	12.00	33.59 39	48.230 208	35.03 128	40.704	11.72	1 11.74/ 000	59.75 85
	Ι	12.57	33.98 101	40.7.70	33.75 140	41.303	10.40 98	17.845 325	60.60
	Ί	13.08 49	34.99 158	48.853 317	32.35 148	41.853 549	9.42 62	10.170	61.91
2	I	13.57 47	36.57 211	49.170 310	30.87	42.402 538	8.80	18.494 315	63.63 207
3	I	14.04 42	38.68 256	49.480 297	29.36	42.940	8.56 16	18.809	65.70 237
-	0	14.40	41.24 294	49.777 277	27.07	43.456 480	8.72	19.108	08.07 360
2	0	14.83 37 30	44.18 323	50.054 250	26.44 133	43.936	9.26	19.382	70.67 274
3	90	15.13 24	47.41 245	50.304	25.11	44.369 276	10.17 126	19.024	73.41 282
Juli 1	0	15.37 16	50.86 357	50.521 178	23.91 104	44.745 309	11.43	19.830 163	76.23 282
2	0	15.53 8	Access of the second	50.699 136	22 87		13.00 182	The second second	
	30	T5.6T	54.43 <sub>361</sub> 58.04 <sub>357</sub>	FO X2E	22 OT	45.054 <sub>234</sub> 45.288 <sub>154</sub>	14.82	19.993 117	79.05 <sub>277</sub> 81.82 <sub>265</sub>
	8	3 7565		3 50 026	27 24 07	1 1 1 1 1 1 2	16.84	5 20 180 70	84.47 248
0	8	15.53 16	65.07 346	50.971 1	20.86	15 5T2 -	18.98 219	20 201 =	86.95 226
	8	15.37 23	68.33 299	50.972 -	20.56 30	45.503 89	21.17 215	20.176 68	89.21 200
C	527			41		-9		1000	
	7	15.14 29	71.32 268	50.93I 78	20.43	45.414 161	23.32 203	20.108	91.21
	7	14.85 34	74.00 230	50.853 107	20.46	45.253 222	25.35 181	20,001 138	92.91 138
	7	14.51 39	76.30 186 78.16 138	50.746	20.88 27	45.031 <sub>270</sub> 44.761 <sub>202</sub>	27.16 153 28.69 118	19.863 163	94.29 103
	7	13.70 42	79.54 87	50.472 149	35	11 178 303	29.87 78	19.700 179	95·3 <sup>2</sup> 6 <sub>5</sub> 95·97 28
Total Contract					4-		78		-
	27	13.27	80.41 32	50.323 144	21.65 47	44.138 319	30.65 33	19.335 185	96.25 12
	6	12.83	80.73 = 25	50.179	22.12	44.019	-30.98 =	19.150	96.13 52
	6	12.40	80.48	50.047	22.62 53	43.510 271	30.86 58	18.974 160	95.61 90
	26 6	11.99 37	79.66	49.935 87	23.15 55	43.245 227	30.28 102	10.014	94.71 127
Dez.	U	11.62 37	78.29 189	49.848 58	23.70 55	43.018 172	29.26	18.677 109	93.44 161
1	6	11.29 27	76.40 236	49.790 25	24.25 54	42.846 109	27.84 178	18.568	91.83 189
	26	11.02	74.04 276	$49.765 = \frac{23}{8}$	24.79 51	42.737	26.06	18.491 //	89.94 213
3	36	10.81	71.28	49.773	25.30	42.694	23.98	18.448	87.81 273
Mittl_ (	Ort	12.84	r6 or	18 150	07 70	40.000	00.73	TA 050	78 or
sec δ, t		2.105	56.97 +1.852	48.470 1.014	27.73	40.988	20.73 —1.642	17.958	78.27 +0.528
a, a'		+1.2	+13.2	+3.2	-0.171 +13.2	1.922 +4.7	+13.6	+2.6	+13.7
b, b'		+0.08	+ 0.75	-0.0I	+ 0.75	<del>-</del> 4.7   <del>-</del> 0.07	+ 0.74	+0.02	+ 0.73
,		10,00	5.75	0.01	. 0.75	0.07	5.74	0.02	0.13

100	788) ν Cygni 790) ζ Microscopii 793) 61 Cygni pr <sup>1</sup> ) 795) Br 2777 Ceph										
Ta	g	788) v		790) ζ Mic		793) 61 C		795) Br 27	77 Ceph		
-			Dekl.	AR.	Dekl.	AR.	Dekl,	AR.	Dekl.		
19.	<b>1</b> 7	20h 55m	+40° 57′	20h 59m	-38° 50'	21 <sup>h</sup> 4 <sup>m</sup>	+38° 28′	21 <sup>h</sup> 6 <sup>m</sup>	+77° 54′		
Jan.	I	9.417 60	44.60 263	32.600	38.00	28.823	76.02 242	30.19	48.47 272		
	II	9.357 16	41.97 280	32.612	36.85 134	28.775 6	73.60 242	20.57			
	21	9.341 =	39.17 286	32.007	35.51 118	28.769 =	71.01 266	29.12 45	12 70		
12 198	31	9.372	36.31 282	32.764 138	34.03 160	28.806 82	68.35 262	28.86 6	20 42 34/		
Febr.	10	9.449 124	33.48 266	32.902	32.43 169	28.888 126	65.73 246	28.80 = 13	36.06 337 36.06 332		
	20	9.573 169	30.82	33.079 213	30.74 175	29.014 169	63.27	28.93	32.74 316		
März	2	9.742	20.43	33.292	28.99	29.183	01.00	29.26 33	29.58 287		
	12	9.954 252	20.40	33.541 281	27.20	29.394	59.21 142	29.77 67	26.71 246		
A	22	10.200	24.81	33.822	25.41	29.644	57.79	30.44 81	24.25		
April	1	10.493 316	23.74 52	34.133 338	23.03 171	29.929 315	56.87 39	31.25 92	22.28		
	II	10.809 339	23.22	34.471 360	21.92 162	30.244 338	56.48 16	32.17	20.87 80		
Mai	21	11.148 354	23.26 61	34.831	20.30	30.502 202	56.64 72	33.16	20.07 17		
Mai	I	11.502 360	23.87 116	35.208 288	18.81	30.935 362	57.36	34.20	19.90 -		
11.51	II	11:862 357	25.03 165	35.596 391	17.49 112	31.297 260	58.60	35.24 101	20.35 106		
	21	12.219 345	26.68 209	35.987 388	16.37 88	31.657 351	60.33 216	36.25 95	21.41 163		
TELLE.	31	12.564	28.77 248	36.375 374	15.49 62	32.008 332	62.49 253	37.20 87	23.04 214		
Juni	10	12.009	31.25 278	30.749 352	14.87 34	32.340 205	05.02	38.07	25.18 258		
	20	13.184 258	34.03 301	37.101 322	14.53 4	32.645 270	67.85 305	38.82 62	27.76 296		
Juli	30	13.442 215	37.04 315	37.423 283	14.49 =	32.915 220	10.90	39.44 47	30.72		
Jun	10	13.657 166	40.19 322	37.706 238	14.72 52	33.144 182	74.09 325	39.91 31	33.97 347		
	20	13.823 114	43.41 322	37.944 187	15.24 78	33.326	77.34 324	40.22	37.44 360		
DE N	30	6 13.937 59	46.63 314	38.131	16.02	33.458 79		40.36 -	41.04 365		
Aug.	8*)	13.996	49.77 299	38.263	17.01	33.537 27	83.75	40.33	44.69 262		
	18	14.001	52.76 279	38.338 18	18.18	33.564 24	100.77	40.13	48.31 252		
	28	13.954 96	55.55 252	$38.356 {36}$	19.48	33.540 72	89.58 255	39.76 52	51.83 333		
Sept.	7	13.858 139	58.07 221	38.320 85	20.85	33.468 115	92.13 225	39.24 66	55.16 308		
	17	13.719 176	60.28	38.235	22.22	33.353 150	94.38 190	38.58 79	58.24		
01	27	13.543	02.13	38.108	23.54	33.203 179	96.28	37·79 90	OI.OL TOR		
Okt.	7	13.339	63.59 103	37.949 181	24.73 103	33.024	97.80	36.89 98	03.39		
	17	13.115 235	64.62 58	37.768 192	25.76 80	32.825 209	98.90 67	35.91 105	65.34 145		
1	27	12.880	65.20 10	37.576	26.56 54	32.616 212	99.57 21	34.86 <sub>109</sub>	66.79 91		
Nov.	6	12.045	$65.30 \frac{1}{38}$	37.385 180	27.10 27	32.404	99.78 $\frac{21}{26}$	33.77	67.70 25		
	16	12.417	64.92	37.205 159	27.37 =	32.200 190	99.52	32.67	$68.05 \frac{33}{25}$		
D	26	12.205	64.07	37.046	27·35 <sub>30</sub>	32.010	98.81	31.60	67.80		
Dez.	6	12.016	02.75	36.917 94	27.05 57	31.841 140	97.65 158	30.57 95	.66.96		
	16	11.858 123	61.00	36.823	26.48 83	31.701 107	96.07	29.62 85	65.54 196		
	26	11.735 84	50.00	36.769	25.65 106	31.594 70	94.12	28.77	03.58		
	36	11.651	56.41	36.757	24.59	31.524	91.87	28.06	61.15		
Mittl.	Ort	11.707	44.38	35.111	23.18	31.058	76.13	35.60	43.06		
sec δ,		1.324	+0.868	1.284	-o.8o <sub>5</sub>	the second secon	+0.795	4.775	+4.669		
a,			13.9	+3.8	+14.1		+14.4		+14.6		
<i>b</i> ,	b'	0.04	+ 0.72		+ 0.71	+0.04	+ 0.69	+0.23	+ 0.69		
	1) Die	iäheliaha Daralla	(-//)	bandha bandalad	2424			T.* 4	17		

Die jährliche Parallaxe (o"299) ist bereits berücksichtigt.
 Bei Stern 795) lies Aug. 9.

200	-				0		7	0 >	<del></del>
Ta	ıg	794) v A		797) 5		800) α J		8ο3) α	1
72 - 19		AR.	Dekl.	AR.	Dekt.	AR.	Dekl.	AR.	Dekl.
- 19	47	21 <sup>h</sup> 6 <sup>m</sup>	-11° 35′	21 <sup>h</sup> 10 <sup>m</sup>	+30° 0′	21h 13m	5° r'	21h 17m	+62° 21'
Ton		8	25.70	-0 mo-	0000	0			10"10
Jan.	I	40.408 8	25.10 37	38.593 44	29.83 222	8.435 8	32.98 121	15.93 23	42.43 270
	II	40.416	25.47 28	38.549 7	27.61 236	$8.427 = \frac{3}{23}$	31.77	15.70	39·73 <sub>301</sub>
	21	40.456	25.75 19	38.542 7	25.25 241	8.450 53	30.56	15.55 - 8	36.72 321
Febr.	31	40.528 103	25.94 5	38.572 68	22.84 236	8.503 85	29.40 106	15.47 -	33.51 327
rent.	10	40.631 134	25.99 -	38.640	20.48 221	8.588 116	28.34 89	15.48 9	30.24 322
	20	40.765 163	25.89 27	38.747 146	18.27	8.704	27.45 67	15.57 17	27.02 303
März	2	40.928	25.62	38.893	10.30	8.851	26.78	15.74 25	23.99 273
	12	41.121	25.15 67	39.076	14.66	9.027	26.37 12	15.99 22	21.20
	22	41.341	24.48 88	39.294 251	13.41 79	9.233	26.25 =	16.32	18.95
April	1	41.587 270	23.60	39.545 279	12.62	9.466 233	26.46	16.71 44	17.14 125
	II	41.857 290	22.53 124		12.33		27.00	17.15 48	15.89 64
	21	42.147 306	21,29 138	39.824 40.127 319	T2 54	9.723 <sub>279</sub> 10.002 <sub>295</sub>	27.86	17.63 48	TC 2C
Mai	1	42.453 317	TOOT		13.24 70	10.297 306	110	18.14 53	$15.25   1$ $15.24   \frac{1}{60}$
	II		TR 42 149	10 776 330	14.42	10.603 311	30.45 <sub>166</sub>	18.67 53 52	15.84
	21	43.091 318	16.87 156	41.107 331	16.04 200	10.914 308	32.11	19.19 50	17.03
	311								
	31	43.409 309	15.31	41.433 312	18.04 232	11.222	33.94 195	19.69 47	18.78 225
Juni	10	43.718	13.77	41.745 280	20.30	11.521	35.89 201	20.10	21.03 268
	20	44.009 267	12.32	42.034 259	22.93 276	11.803 257	37.90 202	20.58	23.71 303
T 10	30	44.276 236	10.90 110	42.293 224	25.09 286	12.000	39.92 198	20.95 20	20.74
Juli	10	44.512 199	9.79 102	42.517 182	28.55 291	12.287	41.90 189	21.25 23	30.04 350
	20	44.711 158	8.77 82	42.699 136	31.46 287	12.478	43.79 175	21.48 15	33.54 360
	30	44.869 113	7.95 62	42.835 88	34-33 278	12.629 107	45.54 158	21.63 7	37.14 262
Aug.	9	44.982 67	7.33 41	42.923 40	37.11 263	12.736 63	47.12	21.70 -	40.77 358
	18	945.049 22	6.92	1042.963 =	39.74 243	12.799 19	48.51 118	21.68	44.35 245
	28	45.071 =	6.70 4	42.955 53	42.17 219	12.818 = 22	49.69 96	21.59 17	47.80 325
Sept.	7	45.050	6.66	42.902					
Sept.	7	45.050 60	6.77	12 800 93	44.36	12.796	50.65 74	21.42	51.05 298
	27	44.990 <sub>92</sub> 44.898 <sub>117</sub>	7.02	42.682	46.26	12.737 <sub>92</sub> 12.645 <sub>116</sub>	51.39 50 51.89 30	21.18 30 20.88 25	54.03 264
Okt.	7	44.781	7 27 35	42.527 173	47.83 123 49.06 86	12.529	C2 T8 29	20.53 35	56.67 225 58.92 181
0.20	17	11 616	7 80 73	42.354 185	10.02	T2 206 133	52 25 -	20.15 42	60.73
	7 - 5	143	40		4/	147			
1 30	27	44.503 142	8.28	42.169 187	50.39 7	12.254 143	52.13	19.73 43	62.05 79
Nov.	6	44.361	8.79 52	41.982	50.46	12.111	52.13 33 51.80 51	19.30 44 .18.86 44	62.84 22
	16	44.227 118	9.31 52	41.801 168	50.12	11.975 123	51.29 60	18.86	$63.06 \frac{22}{35}$
	26	44.109 96	9.83 50	41.033	49.38	11.852	50.60 84	18.44	02./1 02
Dez.	6	44.013 70	10.33 48	41.484 125	48.25 149	11.749 80	49.76 98	18.04 40	61.79 147
	16	43.943	10.81	41.359 05	46.76 181	11.669	48.78 108	17.67 31	60.32 199
	26	43.902	TT 24 43	41.264 63	44.95 207	TT 6TE 54	47.70 116	17.36 27	58.33 244
	36	43.892	11.63	41.201	42.88	11.591	46.54	17.09	55.89
		- 1-36				THE PARTY OF		0. 12 10	
Mittl.		42.500	14.85	40.697	31.17	10.440	39.73	18.88	37.97
sec δ,			-0.205		+0.578	1.004	+0.088	2.156	+1.910
a,	1 2		+14.6	+2.6	+14.8	+3.0	+15.0	+1.4	+15.2
<i>b</i> ,	0	-0.01	+ 0.69	+0.03	+ 0.67	0.00	+ 0.67	+0.10	-+ o.65

9 3		804) 1	Pegasi	805) γ Pa	avonis¹)	8ο6) ζ Ca	pricorni	809) β (	Cephei
Ta	ıg	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
19	47	21h 19m	+19° 34′	21 <sup>h</sup> 22 <sup>m</sup>	-65° 36′	21h 23m	-22° 38'	21h 27m	+70° 19′
Jan.		26.07#	77.00	1.58 g	46"77	26 552		E 47	46"42
Jan.	I	36.017 32	33.20 180	T 40	46.71	36.552. 7	44.22	55.41 38	46.43 257
	II	35.985 -	31.40 189	1.49	44.27 272	36.545 27	43.98 38	55.03 29	43.86 294
	21	35.986	29.51 191	1.48 - 7	41.55 291	36.572 60	43.60 54	54.74 18	40.92 318
T7 - h	31	36.020 68	27.60 183	1.55 15	38.64 304	36.632	43.06 69	54.56 6	37.74 331
Febr.	10	36.088 102	25.77 169	1.70 24	35.60 308	36.725 125	42.37 83	54.50 -6	34.43 330
	20	36.190 136	24.08 147	1.94 31	32.52 307	36.850	41.54 98	54.56 18	31.13 317
März	2	30.320	22.61 116	2.25	29.45 208	37.007 180	40.56 113	54.74 20	27.96 291
	12	30.490	21.45 80	2.04	20.47	37.196	39.43	55.03 20	25.05 254
	22	36.699 222	20.65 40	3.00 21	23.03	37.415 248	38.16	55.42	22.51 206
April	1	36.932 260	20.25 -	3.59 56	21.00 238	37.663 275	36.77	55.91 57	20.45 151
	11	37.192 283	20.27 45	4.15 60	18.62 207	37.938 298	35.28 156	56.48 62	18.94 93
	21	37.475 301	20.72 88	4.75 62	16.55 173	38.236	33.72 160	57.10 67	18.01 30
Mai	I	37.776 314	21.60 128	5.38 66	14.82	30.554	32.12	57.77 68	$17.71 \frac{3}{33}$
	II	38.090 318	22.88 163	6.04 67	13.48 93	38.885 339	30.53	58.45 68	18.04
	21	38.408 315	24.51 194	6.71 66	12.55 49	39.224 340	28.98	59.13 66	18.98
10.59	31	38.723 304	26.45	7.37 64	12.06	39.564 333	27.52 132	59.79 62	20.49 204
Juni	10	39.027 287	28.64 237	8.01	T2 02 -	39.897 333	26.20 116	60.41	22.53 251
	20	39.314 261	31.01 249	8.63	12.42 84	40.214	25.04	60.41 60.96 48	25.04
	30	39.575 228	33.50 254	9.19 49	T2 26	40.508 264	24.00	01.44	27.94 322
Juli	10	39.803	36.04 254	9.68 43	14.51 163	40.772	23.36 73	61.84 29	31.16 346
	20	39-995 149	38.58 246	10.11	16.14 193	40.999 185	22.86	62.13 19	34.62 361
	30	40.144 105	41.04 235	10.44	18.07	41.184 139	22 6T 25	62.22	38.23 369
Aug.	9	40.240	43.39 218	10.68	20.26	I AT 222	22.60 =	62.41	41.92 368
	18	1240 208 39	45.57 198	10.82	22.63 246	134T 4T2	22.80	62.38 3	15.60
	28	$40.322 \frac{14}{29}$	47.55	$10.85 - \frac{3}{6}$	25.09 246	$41.455 \frac{42}{4}$	23.20 56	62.25 23	49.19 359
Sept.	7	40 202	49.29 148	10.79 16	27.55 237	AT 45T	22.76	62.02	52.63 320
X.0-12	17	10 226	50.77	10.63 24	29.92 217	17 101	24 45		55.83-290
	27	10 T26	FT 06	10.39 31	32.09 189	4T 220	25.2T	61.28 48	58.73 250
Okt.	7	39.999 145	52.85	10.00	33.98	AT 207	26.00	00.00	61.26 211
	17	39.854 156	53.44 26	9.71 40	35.51 109	41.072 146	26.78 78	60.25 55	63.37 163
	27	39.698 159	53.70	0.31	26.60	40.926	27 52	59.66 61	65.00
Nov.	6	39.539 159	F2 65	1 X XO	27 2T - 0	1 10 776	28.17	59.05 63	66 70
1	16	39.384 142	TO 07	8.48 39 8.00	27 20 =	40.632	28.71	58.42 63	$66.63 \frac{53}{5}$
	26	39.242	52.58	8.09 35	26.87	10 502	20 12	57·79 60	66.58 65
Dez.	6	39.117 102	51.59 126	7.74 29	35.92 95	40.392 85	29.39 12	57.19 57	65.93 124
	16	39.015	PER COLUMN	7.45 22	34.48 188	40.207	20.51	56.62 50	64.69 178
	26	28 028 //	50.33 150	7.22	32.60 226	10 252 55	20.40	50.T2	62.91 228
134	36	38.890 48	48.83 169	7.23 <sub>14</sub> 7.09	30.34	40.228	29.32	55.69 43	60.63
Mitt					The state of			TE 3'8 (V) (V)	40.47
	l. Ort , tg δ	38.023	36.61	5.31	27.49	38.661	31.18	59.02 2.971	40.47 +2.796
	a'	1.061	+0.356	2.421	<b>−2.205</b>		-0.417 +15.6	+0.8	+15.8
	b'	+2.8	+15.3	+4.9	+15.5	+3.4	+ 0.63	+0.15	+ 0.62
U,	U	+0.02	+ 0.64	-0.11	+ 0.64	—o.o2	1 0.03	15	0.02

<sup>1)</sup> Die jährliche Parallaxe (o."113) ist bereits berückeichtigt.

-	808) β Aquarii 811) 74 Cygni 810) ν Octantis 815) ε Pegasi										
Ta	g	AR.	Dekl.	AR.	Dekl.	AR.	Dekl	AR.	Dekl.		
	10.51								-		
194	17	21 <sup>h</sup> 28 <sup>m</sup>	-5° 48′	21 <sup>h</sup> 34 <sup>m</sup>	+40° 10'	21 <sup>h</sup> 35 <sup>m</sup>	-77° 37′	21 <sup>h</sup> 41 <sup>m</sup>	+9° 37′		
Jan.	I	44.204	28.57 64	47.148 06	30.63 231	33.97	58.98 279	33.016	46.52 131		
	II	$\frac{44.191}{16}$	20 2T	17.052	28.32 253	33.63 18	50.19	22 08T	45.21		
	21	44.207 46	29.78 57	46.995 16	25.79 266	33.45 <sub>2</sub>	53.09	$32.974 \frac{7}{22}$	43.87		
	31	44.253 76	30.27 49	46.979 =	23.13 260	33.43 16	144.//	32.996 53	42.54 124		
Febr.	10	44.329 107	30.63 30	47.007 74	20.44 260	33.59 31	40.32 350	33.049 85	41.30		
	20	44.436	30.83	47.081 120	17.84 241	33.90 47	42.82	33.134 117	40.20 90		
März	2	44.5/3 ,67	30.83	47.201	15.43	34.37 62	33.30 324	33.251	39.30 62		
	12	44.740	30.62	47.367	13.31	34.99 75	30.02	33.400 181	38.67		
47 - 24	22	44.937 226	30.17 70	47.577	II.57	35.74 87	32.87	33.581 212	38.34		
April	Ι	45.163 251	29.47 95	47.828 288	10.29 77	36.61 97	29.96 259	33.793 241	38.34 35		
	11	45.414 275	28.52	48.116 318	9.52 24	37.58 106	27.37 223	34.034 266	38.69 <sub>71</sub>		
100	21	45.080	27.35	40,434	9.28 =	38.64	25.14 ,82	34.300 00	39.40		
Mai	I	45,083	25.98	40.775	9.59	39.77	23.32 137	34.588	40.45 136		
	II	40.201	24.45 166	49.132 262	10.44	40.94 119	21.95	34.091 312	41.81 164		
	21	40.007 316	22.79 174	49.494 360	11.80 182	42.13 119	21.06 39	35.203 314	43.45 186		
Tribi	31	46.923 310	21.05 176	49.854 346	13.62	43.32 116	20.67	35.517 308	45.31 <sub>204</sub>		
Juni	10	41.233 206	19.29	50.200	15.85	44.48	20.78 61	35.825 205	47.35		
	20	47.529	17.50 ,66	50.525 204	TX 42	45.59 102	21.39 109	36.120	49.49		
7.11	30	47.803 246	15.90	50.819	21.20	46.61 <sub>91</sub>	22.48	36.394 246	51.69 220		
Juli	10	48.049 211	14.35 140	51.076 212	24.30 316	47.52 77	24.03 195	36.640 212	53.89 215		
	20	48.260	12.95 121	51.288 164	27.46 320	48.29 62	25.98 230	36.852	56.04 204		
	30	48.432	i1.74 102	51.452	30.00	48.91	28.28	37.026	58.08		
Aug.	9	48.561 85	10.72 80	51.564 -8	33.04 200	49.36 26	30.85 275	37.157 88	59.97 171		
	18	48.040	9.92 59	51.622	30.93 202	49.62 7	33.60 285	37.245 44	61.68		
	28	48.686 -	9.33 39	51.628 - 44	39.86 272	49.69 12	36.45 284	37.289 2	63.19 128		
Sept.	7	48.684	8.94 20	51.584 90	42.58 245	49.57 30	39.29 271	37.291 37	64.47 105		
	17	48.642	8.74 2	·51.494 ***	45.03	49.27	42.00	37.254 72	05.52 80		
01.1	27	48.507	8.72 -	51.364 164	47.16	48.80 61	44.50	37.182 99	66.32 56		
Okt.	7	48.465	8.86	51.200 189	48.94 138	48.19 74 .	46.67 175	37.083 119	66.88 31		
	17	48.343	9.13 37	51.011 207	50.32 97	47.45 82	48.42 126	36.964 133	67.19 8		
Partice.	27	48.210	9.50 47	50.804 215	51.29 51	46.63 86	49.68	36.831 138	67.27 16		
Nov.	6	40.074	9.97 54	50.589	51.80	45.77 88	50.39 13	36.693	67.11 38		
	16	47.942	10.51	50.372	51.85 -	44.89 86	$50.52 \frac{3}{48}$	30.550 128	66.73 60		
Dez.	26 6	47.822 103	11.10 63	50.163	51.42 80	44.03 79	50.04 107	36.428	66.13 79		
Dez.	U	47.719 81	11.73 65	49.969 173	50.53 134	43.24 69	48.97 163	36.313 96	65.34 98		
	16	47.638	12.38 65	49.796	49.19 174	42.55 58	47.34 214	36.217 74	64.36 112		
	26	47.581 28	13.03 64	49.049 115	47.45 200	41.97 43	45.20 258	36.143	63.24 123		
433	36	47.553	13.67	49.534	45.36	41.54	42.62	36.094	62.01		
Mittl	. Ort	46.174	19.18	49.293	29.14	39.91	38.13	34.915	52.13		
	, tg δ	1.005	-0.102	1.309	+o.844	4.667	-4.559	1.014	+0.170		
	a'	+3.2	+15.8	+2.4	+16.2	+6.7	+16.2	+2.9	+16.5		
<i>b</i> ,	<i>b'</i>	-0.01	+ 0.61	1-0.05	+ 0.59	-o.25	+ 0.59	+0.0I	+ 0.57		

819) δ Capricorni 821) π <sup>2</sup> Cygni 823) 16 Pegasi 822) γ Gruis									
Tag		AR.	Dekl.	AR.	Dekl.	AR.	Dekt.	ΔR.	
-									Dekl.
1947	7	21 <sup>h</sup> 44 <sup>m</sup>	-16°21'	21 <sup>h</sup> 44 <sup>m</sup>	+49° 3′	21 <sup>h</sup> 50 <sup>m</sup>	+25°40′	21 150 <sup>m</sup>	-37°36′
Jan.	1	5.104 22	79.67	47.638 146	52.93 236	36.958	28.69 183	41.384 43	71.21
1	ΙΙ	$5.081 \frac{23}{6}$	70.77	47.492 103	50.57 265	36.801	20.00	11 21T	70.24 97
2	21	5.087 36	70.74	47 280	47.92	26 8 54 3/	24.00	AT 224 -	69.02
3	31	5.123 68	79.57 32	47.334 2	45.08	36.840	1 22.03	41.364 68	67.58 163
77 7	10	5.191 98	79.25 50	$47.332 \frac{2}{52}$	42.16 289	36.878 65	20.78	41.432	65.95 180
19	20		78.75 66	3-			-00,		
2.50	2 ·	5.289 <sub>129</sub> 5.418 <sub>164</sub>	78 00	47.384 109	39.27 273	36.943 103	18.84 176	41.539 145	64.15
	12	5.410 164	77.24 104	47.493 165 47.658 218	36.54 247	37.046	17.08 149	41.684 183	62.22
	22	5.579 <sub>193</sub> 5.772 <sub>222</sub>	76.20 121	47.876 218 47.876 269	34.07 <sub>210</sub> 31.97 <sub>165</sub>	37.186 178 37.364 213	15.59 115	41.867 183 42.088 256	60.18 210
	I	5.994 <sub>251</sub>	74.99	48.145 269	30.32	37·577 <sub>246</sub>	T2 60 /3	42.344 290	58.08 213
	388				1000		13.09 32		55.95 213
	II	6.245 278	73.62 150	48.458 48.808 350	29.18 58	37.823 276	13.37	42.634 321	53.82 208
25.	21	0.523 200	72.12	48.808 378 49.186 397	28.60	38.099	13.51	1 42.955	51.74 107
	Ι	6.822 316	70.51 168	49.186	28.60 58	38.398	14.10	43.302 26	49.77
	II	6.822 316 7.138 327	68.83	49.104	29.18 113	38.715 317	15.14	43.009	47.93
2	21	7.405 330	67.13 166	49.988 405	30.31 165	39.042 329	16.59 182	44.050 387	46.28
	31	7.795 3 <sup>27</sup>	65.47	50.390 388	31.96	39.371 323	18.41 213	44.437 .0.	44.85 115
	10	0.122	U4.00	30.//0 262	34.08	39.094	20.54	44.021	43.70 86
2	20	8.437	62.40	51.141 329	36.60 285	40.002	22.92 257	45.193 350	12.81
3	30	8.732 260	61.08	51.4/0 287	30.45	40.287 256	25.40	45.543	42.29 21
Juli 1	10	9.001 235	59.96 gr	51.757 237	42.56 311	40.543 220	28.18 274	45.864 283	42.08 =
	20	9.236	TO 05	51.994 183	1585	40.763 179		46.147 237	42.20
	30	9.431 153.	58.27	52.177	45.85 <sub>340</sub> 49.25 <sub>342</sub>	1 /10.072	30.92 <sub>273</sub> 33.65 <sub>266</sub>	46.384 187	42.65 45
	9	9.584 107	F7 02 TT	52.301 64	52.67 338	17 076 34	36.31 <sub>253</sub>	A/S FFT	12 28 /3
	18*)	18 9.691 60	57.72 -	1852.365 64 5	56.05 338	17 164	38.84 236	16 701	11 28
1 ng	28	9.751 16	57.74 21	$52.370 \frac{3}{52}$	59.31 307	$41.206 \frac{42}{3}$	41.20 215	<sup>20</sup> 46.782 <sup>78</sup>	45.59 137
Sept.		-		5~		Control of the Control			
	7	9.767 26	57.95 38	52.318 105	62.38 282	41.203 44	43.35 190	46.805 29 46.776 75	46.96
	17 27	9.74I <sub>64</sub> 9.677 <sub>93</sub>	58.33 51 58.84 60	52.213 152	65.20 252	41.159 81 41.078	45.25 161 46.86 131	46 70T	48.42
Okt.	7	9.584 116	FO 44	52.061 192 51.869 224	67.72 217 69.89 177	40.967	48.17	16 586	49.91 <sub>145</sub> <sub>51.36 <sub>132</sub></sub>
	17	9.468	60.10 68	51.645 247	71.66 132	40.832 150	40 TE 90	46.441 165	52.69 117
		ACCORDING TO A STATE OF THE PARTY OF THE PAR	0.00		1000000		120		
	27	9.337 136	60.78 66	51.398 261	72.98 84	40.682	49.79 28	46.276 176	53.86
	6	9.201	61.44 62	51.137 266	73.82 33	40.523	50.07 -8	46.100 176	54.80 68
	16	9.000 724	62.06	50.871 263	74.15 19	40.362	49.99 44	45.924 167	55.48 39
Dez.	26 6	8.941 110	62.61 47	50.608 250	73.96 70	40.207	49.55 79	45.757 149	55.87 8
Dez.	Q	8.831 89	63.08 38	50.358 230	73.26	40.063	48.76	45.608 126	55.95 =
1	16	8.742 66	63.46 27	50.128 203	72.05 169	39.936 106	47.64 142	45.482 96	55.72 52
2	26	8.676 28	63.73	49.925 168	70.36	39.830 82	46.22 167	45.386 63	55.19 53
\$ 15 FL 3	36	8.638	63.89	49.757	68.25	39.748	44.55	45.323	54-37
Mittl.	Ort	* n or=	65.45	40.000	40.20	28 884	20.00	42 F25	C4.TC
sec 8, t		7.057	67.45 —0.294	49.922 1.526	49.30	38.884	30.09 +0.481	43·537 1.262	54.10 —0.771
a, a'		+3.3	-0.294 $+16.6$		+1.153 +16.7		+16.9	+3.6	-0.771 +16.9
b, b'		-0.02	+ 0.56		+ 0.56		+ 0.53	and the second second	+ 0.53
, 0	0.16	0.02	. 0.50	0.00	0.50	3.53	55	30 ( S. S. L. S.	5.33

<sup>\*)</sup> Bei Stern 823) und 822) lies Aug. 19.

		827) a A	quarii	830) 20	Cephei	828) ı A	quarii	829) α	Gruis
Та	g	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
194	17	22 <sup>h</sup> 3 <sup>m</sup>	-o° 34'	22 <sup>h</sup> 3 <sup>m</sup>	+62°31′	22 <sup>h</sup> 3 <sup>m</sup>	-14° 7′	22 <sup>h</sup> 4 <sup>m</sup>	-47° 12'
Jan.	I	1.898	49.40 82	20.98 29	42.77 223	32.744	51.45 21	51.871 80	86.19
	II	1.855 43	50.22 78	20.69	40.54 261	32.705 12	51.66 8	51.791 39	84.82 167
	21	1.839	51.00 71	20.46 16	37.93 291	32.693 =	51.74 -	$51.752 \frac{39}{5}$	83.15 195
	31	1.849 39	51.71 60	20.30 9	35.02	32.709 45	51.67	51.757 50	81.20 217
Febr.	10	1.888 68	52.31 44	20.21	31.92 315	32.754 75	51.45 40	51.807 95	79.03 234
	20	1.956 100	52.75 25	20.20 8	28.77 308	32.829 107	51.05	51.902	76.69 247
März	2	2.050	53.00 2	20.28 8	125.09	32.936 138	50 46 59	52.043 185	74.22
	12	2.187 164	53.02	20.44	22.80 258	33.074 171	40.68	52.228	71.66 258
	22	2.351 196	52.79 <sub>51</sub>	20.69	20.22	33.245	48.69 99	52.458 273	09.08
April	1	2.547 226	52.28 79	21.01 39	18.06 168	33.448 234	47.51 136	52.731 313	66.51 250
	II	2.773 254	51.49 106	21.40	16.38	33.682 262	46.15 153	53.044 350	64.01 <sub>238</sub>
	21	3.027 278	50.43	21.85 45 48		33.944 287	44.62 165	53.394 383	61.63 220
Mai	I	3.305 297	40 TO	22.22	T4 72 33	34.231 306	42.97	53.777 408	59.43 199
	II	3.602 310	47.59 171	22.85	14.80 68	34.537 321	41.22 179	54.185 427	57.44 172
	21	3.912 316	45.88 184	23.38 53	15.48	34.858 327	39.43 179	54.612 436	55.72 142
	ОТ	4.228	1		123	3-7	The state of the s	430	
Juni	31 10		44.04 <sub>193</sub> 42.11	23.91 52	16.73 179	35.185 326	37.64	55.048 435	54.30 106
Juin	20	4.543 306 4.849 288	10 16 195	24.43 <sub>48</sub>	18.52 227	35.511 318	35.90 164	55.483 425	53.24 70
	30	4.049 <sub>288</sub>	38.23 186	24.91 44	20.79 270	35.829 302	34.26	55.908 404 56.312 272	$\begin{vmatrix} 5^2.54 & 3^1 \\ 5^2.23 & \frac{3}{2} \end{vmatrix}$
Juli	10	5.137 <sub>264</sub> 5.401 <sub>234</sub>	36.23 <sub>186</sub> <sub>36.37 <sub>173</sub></sub>	25.35 38 25.73 31	23.49 304 26.53 331	36.131 277 36.408 246	32.76 <sub>132</sub> 31.44 <sub>111</sub>	56.684 372	52 22
							100		32.32 47
	20	5.635 197	34.64 158	26.04 25	29.84 351	36.654 209	30.33 88	57.016 283	52.79 84
	30	5.832	33.00	26.29 17	1 33.55 060	36.863 168	29.45 64	57.299 226	53.63
Aug.	9	5.989 114	31.67 119	20.40	36.98 366	37.031 123	28.81	57.525 166	54.80 146
4	19	6.103 71	30.48 97	26.55 I	40.04 261	37.154 78	28.42 16	57.691 103	56.26 169
	28	6.174 28	29.51 74	26.56 -7	44.25 351	37.232 34	28.26 -	57.794 39	57.95 184
Sept.	7	6.202	28.77	26.49 15	47.76 331	37.266 8	28.31	57.833 22	59.79 192
	17	6.190	28.25 32	20.34	51.07 305	37.258 46	28.56	57.811 78	61.71
	27	6.143	27.93 11	26.13	54.12	37.212 -9	28.97 53	57.733 126	63.64 184
Okt.	7	6.066	27.82 -6	25.80	56.85 225	37.134 102	29.50 61	57.607 166	05.48
	17	5.966 116	27.88	25.54 36	59.20 190	37.032 119	30.11 66	57.441 194	67.15
	27	5.850 125	28.09 36	25.18 38	61.10	36.913 <sub>128</sub>	30.77 67	57-247 210	68.59 113
Nov.	6	5.725 -06	28.45	24.00	62.52 88	30.785	31.44 65	57.037	69.72 79
	16	5.599 121	28.93 58	24.39	63.40 31	36.655 125	32.09 61	56.821	70.51 41
	26	5.4/0 IIO	29.51 67	23.90	63.71 = 27	36.530 112	32.70 54	56.611	70.92
Dez.	6	5.368 95	30.18 74	23.57 39	63.44 84	36.418 96	33.24 47	56.416 170	70.92 41
	16	5.273 77	30.02	23.18	62.60	36.322	33.71	56.246	70.51 81
	26	5 106 "	31.69 77	22.82 32	61.20	26 246	34.08 37	56.107 103	69.70
	36	5.142	32.49	22.50 32	59.29	36.194 52	34.34	56.004	68.53
Jul: TT	l. Ort	0.000		-	-6 -	-1.00		19 5 - 38	
	tgδ	3.703	41.07	23.69	36.01	34.584	39.42	54.112	66.72
	a'	1.000 +3.1	-0.010	2.168 +1.8	+1.923	1.031	-0.252	1.472	-1.08I
	b'	0.00	+17.5 + 0.49	+0.11	+17.5 + 0.49	+3.2 -0.01	+17.5 + 0.49	+3.8 -0.06	+17.6 + 0.4 8
1/2	1	0.00	1 0.49	10.11	- 0.49	1 -0.01	7 0.49	0.00	- 0.4 0

	834) &	Pegasi	835) π I	Pegasi	837) 24	Cenhei	8 <sub>3</sub> 6) ζ (	Canhai
Tag	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	A CONTRACTOR							
1947	22 <sup>h</sup> 7 <sup>m</sup>	+5° 55′	22 <sup>h</sup> 7 <sup>m</sup>	+32°54′	22 <sup>h</sup> 8 <sup>m</sup>	+72°4′	22 <sup>h</sup> 8 <sup>m</sup>	+57° 56′
Jan. 1	29.732	64.75 106	35.887 o8	63.85 189	44.01	56.27 210	58.236 240	28"52
11	20 682	63.69 108	25 500	61.96	43.50	54.17 255		28.53 <sub>217</sub> 26.36 <sub>254</sub>
21	20 658	62 6T	OF FOT	59.85 225	43.50 42	51.62 289	57.990 <sub>192</sub> 57.804 <sub>134</sub>	23.82 283
31	20.660	6T 56 105	25 686 -	57.60 229	42.77 20	48.73 313	57 D70	20.00
Febr. 10	20 60T	60 50	25 688	55.31 224	42.57 7	45.60 313	57 500 /*	20.99 300 17.99 305
	01					324	31.399 2	
20	29.752 92	59.77 64	35.728 82	53.07 210	42.50 6	42.36 322	57.597 70	14.94 298
März 2	29.844 125	59.13 40	35.810 123	50.97 185	42.56 20	1.39.14 006	57.667	11.96
12	29.969 159	58.73 12	35.933 166	49.12	42.76 32 43.08 43	30.00	57.810 213	9.17 2.0
22	30,120	58.61 = 18	36.099 207	47.59 113	43.08	33.28 242	58.023 280	6.69 208
April 1	30.319 223	58.79 50	36.306 245	46.46 69	43.51 53	30.86	58.303 341	4.61 160
II	30.542 251	59.29 82	36.551 <sub>278</sub>	45.77 21	44.04 63	28.92 141	58.644 391	3.01 105
21	30.793 206	60.11	36.829 306	$45.56 \frac{21}{28}$	44.67 60	27.51 82	59.035 432	1.96 47
Mai r	31.060	61.23	37.135 328	45.84	45.35	26.69 21	59.467 461	1.49 12
II	31.300	1 62.64	37.463	46.61	40.00	26.48	1 50.028	1.61 71
21	31.675 309	64.28 185	37.804 346	47.85 166	46.82 74	26.89 101	60.404 477	2.32 128
21							60.881	and the same of th
Juni 10	31.991 315	66.13	38.150 341	49.51 204	47.57 71 48.28 67	27.90 <sub>156</sub> 29.46 <sub>208</sub>	60.881 61.346	3.60 179
20	32.306 306 32.612 388	68.12 208	38.491 328	51.55 235	48.95 61	27.40 208	61.786	5-39 227
30	32.900 265	70.20 212 72.32 209	38.819 306	53.90 <sub>261</sub> 56.51 <sub>280</sub>	40.56	31.54 <sub>255</sub> 34.09 <sub>293</sub>	62.100	7.66 267
Juli 10	33.165 265	74.41 202	39.125 <sub>276</sub> 39.401 <sub>240</sub>	59.31 292	49.56 50.08 43	37.02 325	62.547 301	10.33 301
			The second secon			325	301	13.34 328
20	33.399 198	76.43 191	39.641 198	62.23 296	50.51	40.27 349	62.848	16.62 345
30	33.597 158	78.34	39.839 152	05.19	50.04 22	143.10 -	03.007	20.01
Aug. 9	33.755 116	80.09	39.991 105	08.13	51.00	147.41	03.258	1 2 4.04
19	33.871 72	81.05	40.096 56	71.00	51.10	1 22.2 2 2001	63.359 31	2/.22 755
28	33.943 30	83.00 114	40.152 8	73.72 254	51.15 12	54.09 366	63.390 =	30.77 342
Sept. 7	33.973 <sub>10</sub>	84.14 90,	40.160	76.26	51.03 24	58.55 351	63.352 103	34.19 323
17	33.963 46	85.04 67	1 40 T25	78.57 202	50.79	02.00	63.249 -62	37.42 297
27	33.917 75	85.71 44	40.050 75	80.59	50.40	1 05.33 200	1 04.007	40.39 265
Okt. 7	33.842	86.15	39.942 126	82.31	50.04	100.35 262	62.872	43.04 227
17	33.743 115	86.38	39.806	83.68 137	49.54 57	70.98 220	62.613 295	45.31 185
27	33.628 124	86.39 18		84.69 61		73.18	62.318 321	47.16 136
Nov. 6	33.504 127	86.21	39.649 <sub>169</sub> 39.480 <sub>174</sub>	8 20	48.35 65	74.89 117	61.007	48.52 83
16	33.377 123	85.85	39.400 174	85.51 = 20	47.70 67	76.06 60	61.660 337	40.35
26	33.254 114		39.306 <sub>174</sub> 39.132 <sub>166</sub>	85.3I <sub>61</sub>	47.03 67	76.66	6T OTK	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Dez. 6	33.140 100	84.63 82	38.966	84.70	46.36 65	76.66 61	60 08T "	49.38 83
		3 1 3 - 30 W			1311 1 2 5 11			2000
16	33.040 82	83.81	38.814 135	83.70	45.71 61	76.05 120	60.658 298	48.55 136
26	0 00 01	82.87 101	38.679	82.33	45.10 44.55	74.85 176	60.360 264	47.19 187
36	32.897	81.86	38.568	80.63	44.55	73.09	60.096	45.32
Mittl. O	t 31.516	71.26	37.805	63.02	47.54	48.00	60.687	22.27
sec δ, tg		+0.104	1.191	+0.647	3.250	+3.092	1.884	+1.597
a, a'	ACTUAL REPORT OF THE PARTY OF T	+17.7	+2.7	+17.7	+1.1	+17.7	+2.1	+17.7
b, b'	+0.01	+ 0.47	+0.04	+ 0.47	+o.18	+ 0.47	+0.09	+ 0.47

		840) 8	Aquarii	841) α T	ucanae	842) Y	Aquarii	844) β L	acertae
Ta	ıg	AR.	DekL	AR.	Dekl	AR.	Dekl	AR.	Dekl.
19	47	22 <sup>h</sup> 14 <sup>m</sup>	-8° 2′	22 <sup>h</sup> 14 <sup>m</sup>	-60° 31′	22 <sup>h</sup> 18 <sup>m</sup>	—1° 39′	22 <sup>h</sup> 21 <sup>m</sup>	+51° 57′
Jan.	I	0.505	63.05	50.75 16	50.47 189	53.397 52	26.91 74	26.059	52.42 202
0	II	0.458 +/	62 52	50.59 10	48.58 226	E2 24E	27 65		
	21	0.425	62.02	50.49 4	46.32 256	E2 2T6	28 24	25 700	50.40 48.02 265
	31	0.440	64 10	50.45 2	43.76 281	52.212	28.06	25 585 113	45-37 283
Febr.	10	0.472 <sup>32</sup> 61	64.22	50.47 8	40.95 299	52,227	20.46	25 522	42.54 288
		01	T			33	35		
Mäna	20	0.533 92	64.28	50.55 15	37.96 309	53.390 84	29.81	25.515 53	39.66 281
März	2 12	0.625	64.05 45	50.70 22	34.07	53.474 116	29.96 7	25.568 115 25.683 177	36.85 <sub>264</sub>
	22	0.750	62.93	50.92 28	31.73 311 28.62	53.590 150	32	25 860 1/1.	34.21 234
April	I	0.907 189 1.096 <sub>221</sub>	62 02	51.20 34	25.60 302	53.740 182	29.57 <sub>58</sub> 28.99 <sub>85</sub>	26.095 <sub>290</sub>	31.87 196
210111			113	51.54 39		53.922 215	0)	20.093 290	29.91 150
	II	1.317 250	60.89	51.93 44	22.72 266	54.137 244	28.14	26.385 337	28.41 98
45-16	21	1.507 276	59.54	52.37	20.06	54.381	27.03	20./22 276	27.43 43
Mai	I	1.843	58.01 168	52.86	17.00 208	54.052	25.67	27.098	27.00 -
	II	2.141	56.33 180	52.86 52 53.38 55	15.58	54.944 308	24.10	27.504 423	27.14 71
	21	2.453 321	54.53 186	53.93 57	13.87	55.252 317	22.30 186	27.927 429	27.85 125
	31	2.774 321	52.67 186	54.50	12.56 88	55.569 318	20.50	28 256	29.10
Juni	10	3.095 314	50.81 183	54.50 56 55.06 56	11.68 42	55.887 311	10.50	20.700	30.85 220
	20	3.409	48.98 173	55.61 53	TT.26 -	56.198 296	10.59	29.1000	33.05 260
	30	3.700	47.25 761	50.13	11.31 50	56.494	14.00	29.504 240	35.65
Juli	10	3.985 247	45.64 143	56.63 44	11.81 95	56.768 246	12.81 173	29.904 293	38.57 316
	20				TO 76				
	30	4.232 <sub>212</sub> 4.444 <sub>172</sub>	44.21 42.97 101	57.07 37	T4 T2	57.014 211	11.08 156	30.197 <sub>241</sub> 30.438 <sub>183</sub>	41.73 334
Aug.	9	4.616	1T 06	57.44 31 57.75 22	15.85 202	57·225 <sub>172</sub> 57·397 <sub>130</sub>	9.52 137 8.15 116	30.621 123	45.07 344 48.51 346
	19	4.745 85	AT T8 70	57.97 14	17.87 202	FF FOR	0.00	20 711	51.97 341
	28	1.830	10.61	<sup>26</sup> 58.11 5	20.12 239	57.612	6.06	<sup>28</sup> 30.805 <sub>1</sub>	55.38 341
a		CONTRACTOR OF THE PARTY OF THE	32	-		73	71	- 100	3-7
Sept.	7	4.872	40.32 10	58.16	22.51 244	57.658 4	5.35 48	30.806	58.67 311
	17	$4.873 \frac{1}{36}$	40.22 8	58.13 11	24.95 240	57.662 = 33	4.87 27	30.749 110	61.78 287
Okt.	27	4.837 67	40.30	58.02 18	27-35 225	57.629 63	4.60 8	30.639 156	64.65 255
One,	7 17	4.77° 93 4.677 110	40.55 38 40.93 48	57.84 <sub>24</sub> 57.60 <sub>29</sub>	29.60 <sub>200</sub> 31.60 <sub>168</sub>	57.566 89 57.477 106	4.62	30.483 196 30.287 228	67.20 219
			40.93 48			1000	25		69.39 178
	27	4.567 120	41.41 55	57·31 <sub>31</sub>	33.28 128	57.371 117	4.87 39	30.059 252	71.17 133
Nov.	6	4.447 124	41.96	57.00 33 56.67 33	34.56	57.254 ,22	5.26	20.807	72.50 83
	16	4.323	42.55 62	56.67 33	35.38 32	57.132 119	5.75 58	29.540	73.33 32
Don	26 6	4.203 111	43.17 61	50.34 ar	35.70 18	57.013	0.33 64	29.201 200	73.65 21
Dez.	0	4.092	43.78 60	56.03 28	35.52 70	56.902 98	6.97	28.995 261	73.44 75
	16	3-995 80	44.38 56	55.75 24	34.82 119	56.804 83	7.67 72	28.734 243	72.69 125
	26	3.915 58	44.94 50	55.51 20	33.63 165	56.721 62	8.39 73	28.491 217	71.44 173
	36	3.857	45.44	55.31	31.98	56.659	9.12	28.274	69.71
Mittl	. Ort	2.269	52.55	53.36	28.60	55.127	18.22	28.240	46.76
	, tgδ	1.010	-0.141	2.032	-1.769	1.000	-0.029	1.623	+1.278
	a'	+3.2	+17.9	+4.1	+18.0	+3.1	+18.1	+2.4	+18.2
<i>b</i> ,	<i>b</i> ′	-0.01	+ 0.45	-o.11	+ 0.44	0.00	+ 0.43	+0.08	+ 0.42

	1-05	848) α L	acertae	850) n A	quarii	851) 31	Cephei	852) 10	Lacertae
Ta	g	AR.	Dekl	AR.	Dekl.	AR	Dekl.	AR.	Dekl.
19	47	22 <sup>h</sup> 20 <sup>m</sup>	+50°0′	22 <sup>h</sup> 32 <sup>m</sup>	-0° 23′	22h 34m	+73°21'	22 <sup>h</sup> 36 <sup>m</sup>	+38° 46'
				-					0 23 23
Jan.	Ι	4.056	39.95 192	36.301 61	36.75 76	24.07	73.94 177	50.853	29.25 174
	II	3.866 156	38.03 228	36.240	37.51 73	23.48 52 22.96 41	72.17 225	50.716	27.51 203
	21	3.710	35.75 255	36.200 16	38.24 66	22.96 41	69.92 266	50.605 78	25.48 225
Title Less	31	3.596 66	33.20 273	36.184 -	38.90 54	22.55 29	67.26 297	50.527 42	23.23 237
Febr.	10	3.530 12	30.47 279	36.194 39	39.44 40	22.26	64.29 315	50.485	20.86 239
	20	3.518	27.68 274	36.233 <sub>69</sub>	39.84 21	22.09 2	61.14 320	50.484 43	18.47 231
März	2	3.562	24.94 257	36.302	40.05	22.07 -	57-94 212	50.527	10.10
	12	3.665 162	22.37 220	36.404 136	40.04 26	22.10	54.82 202	50.617 138	14.03 185
14.16	22	3.827	20.07	36.540 160	39.78	22.45	51.90 261	50.755 185	12.18
April	I	4.046 273	18.15 148	36.709 203	39.26 80	22.84 39 51	49.29 219	50.940 231	10.68
	II	4.319 320	16.67 97	36.912 235	38.46 107	23.35 62	47.10 168	51.171 271	9.60 <sub>61</sub>
	21	4.039	15.70 43	37.I47 <sub>263</sub>	37.39	23.07	45.42 114	51.442 307	8.99 11
Mai	1	4.999 390	$15.27 \frac{13}{13}$	37.410 287	36.06	24.66 76	44.28 55	51.749 335	8.88 =
	II	3.309	15.40	37.697	34.51	25.42	43.73 6	52.084 354	9.28
	21	5.798 418	16.09 122	38.001 316	32.78 188	26.21 80	43.79 66	52.438 365	10.17
	31	6.216	17.31 171	38.317 318	30.90 196	27.01	44.45 124	52.803 365	11.54 179
Juni	IO	6.631 400	10.02	38.635 314	28.94 200	27.01 27.80 75	45.69 179		13.33 218
	20	7.031	21.18 255	38.949 301	26.94 199	28.55 75	47.48 227	52.525	15.51 249
	30	7.405 374	23.73 286	39.250 281	24.95 192	20.25	49.75 270	53.863 338	18.00
Juli	10	7.745 297	26.59 312	39.531 254	23.03 181	29.87 53	52.45 306	54.173 276	20.75 293
	20	8.042 248	29.71 329	39.785 221	21.22 165	30.40	55.51 336	54.449 235	23.68
	30	X 200		40.006 183	19.57 146	30.83 43	58.87 358	54.684 189	26.73 31C
Aug.	9	8 182 192	26 28 330	40.189 142	18.11	31.15 19	02.45	E4 X72	29.83 309
	19	8 616 134	20.80	40.22T	16.85 103	31.34 8	00.10	55.013 90	32.92 300
	29	8.692 76	43.17 326	40.430 99	15.82 80	31.42 -	69.93 376	55.103 41	35.92 286
Sept.	7	8.709	46.43 308	40.487	15.02	31.38 <sub>16</sub>	73.69 366	31 EE TAA	38.78 267
41102	17	8 67T	49.51 284	10 504 -	TA.45	31.22	77.35 348	55.T28	41.45
	27	8 -80	52.35 254	40.484	T4 TO 35	30.95 37	80.83 348	CC 088 30	43.87
Okt.	7	8.446 <sub>174</sub>	54.89 220	40.432 78	13.05	40.50	84.07 292	54.999 122	46.01 181
	17	8.272 206	57.09 179	40.354 98	13.99 4	30.11 54	86.99 253	54.877 148	47.82
	27	8.066	58.88	10.256	T4 TO	29.57 61	89.52 208	54.729 167	49.26
Nov.	6	7.837	60.23 88	10 7 16	T4 52	28.06	91.60	F4 F60	50.30 63
	16	7.591 253	61.11 37 61.48	40.029 117	T400	28.29 70	93.17 100	54.5 <sup>02</sup> 180 54.3 <sup>82</sup> 186	50.93
	26	7.338 254		39.912	TEEE	27.59 71	94.17 41	54.196 185	$51.12 \frac{19}{26}$
Dez.	6	7.084 245	61.33 67	39.801 102	16.19 70	26.88 71	94.58 =	54.011 179	50.86
	16	6.839 229	60.66	20 600	T6.80	26.17 68	04.28	53.832 167	50.16
	26	6.610 206	59.49 163	20 611	17.62	25.49 <sub>63</sub>	93.57 140	53.665	49.04 150
	36	6.404	57.86	39.540	18.38	24.86	92.17	53.517	47.54
Mittl	Ova	6 7		24.062	08.40	07.50	64.20		26.10
sec δ,		6.145	34.42 +1.192	37.962 1.000	28.42 0.007	27.52	64.32 +3.348	52.704 1.283	+0.803
	a'	1.556 +2.5	+1.192	+3.1	+18.6	3.494 +1.4	+18.7	+2.7	+18.7
<i>b</i> ,		+0.07	+ 0.39	0.00	+ 0.37	+0.21	+ 0.36	+0.05	+ 0.35
	12/15	1 0.0	. 0.39		- 5.37		0.30 -		33

Ta	or	855) Z	Pegasi	856) β	Gruis	857) n	Pegasi	859) λ I	Pegasi
	5	AR.	Dekl.	AR.	Dekl.	AR.	DekL	AR.	Dekl.
19	47	22 <sup>h</sup> 38 <sup>m</sup>	+10° 33′	22 <sup>h</sup> 39 <sup>m</sup>	-47° 9′	22 <sup>h</sup> 40 <sup>m</sup>	+29° 56′	22 <sup>h</sup> 43 <sup>m</sup>	+23° 16′
Jan.	I	47.378	10.10	28.767 119	65.21 116	29.091 110	37.76	56.822 96	69.57
	II	47.204	8.99	28.648 84	64.05	28.981 87	36.19 180	F6 726	68.15
	21	47 25T	7.82	28.564	02.53	28.894 60	34.39 196	56.651 75	
	31	47.222 3	6.65	28.519 3	00.08	28.834 28	32.43 202	56.601 21	64.87
Febr.	10	$47.219 \frac{3}{26}$	5.52 103	$28.516 \frac{3}{40}$	58.55 236	28.806 - 7	30.41 201	56.580 =	63.14 1/3
	20	47.245 68	4.49 86	28.556 84	56.19 255	28.813	28.40 191	56.590 46	61.45
März	2	17.303	3.63 64	28.640	53.04 260	28.858 45	20.49	56.636 84	59.89 136
	12	47.396 93	2.99 38	28.771	50.96 277	28.945 129	24.78 144	56.720 124	58.53 110
	22	47.523 ,6,	2.61 7	28.948	40.19 270	29.074	23.34 110	56.844 163	57.43 76
April	I	47.687 199	$2.54 \frac{7}{26}$	29.172 269	45.40 277	29.245 212	22.24 69	57.007 201	56.67 79
	11	47.886	2.80	20.441	42.63 268	29.457 250	21.55 26	57.208 228	56.28
	21	48.118 261	3.40	29.752 350	39.95 254	29.707 282	21.29 =	57.446 270	56.30
Mai	I	48.379 286	4.33 124	30.102 202	37.41 235	29.989	21.48	57.716 296	56.73 43
	II	48.665	5.57 154	30.485	35.06	30.299	22.12	58.012 316	57.57 123
	21	48.970 316	7.11 178	30.894 425	32.96 181	30.628 329	23.21 150	58.328 328	58.80 160
	31	49.286	8.89 198	31.319 434	31.15 146	30.968	24.71 186	No. of the last of	60.40
Juni	10	49.605 315	10.87	31.753	29.69 107	31.311 343	26.57 218	58.656 58.988 332 326	62.30 216
	20	49.920 315	13.00 221	32.184 418	28.62 68	31.047	28.75 243	59.314 313	64.46
	30	50.222	15.21	32.002	27.94 26	31.907	31.18 262	59.627 291	66.83
Juli	10	50.505 255	17.44 221	32.996 <sup>394</sup> <sub>360</sub>	27.68 -	32.264 266	33.81 275	59.918 263	69.33 259
	20	50.760	19.65 214	33.356 317	27.85	32.530 229	36.56 281	60.181 228	71.92 260
	30	50.982 184	21.79 202	33.673 266	28.42 96	32.759 188	39.37 282	60.409 189	74.52
Aug.	9 -	51.166	23.81	33.939 209	29.38	32.947	42.19 275	00.598	77.09 247
	19	51.309 101	25.66 166	34.148	30.68	33.090	44.94 264	60.745	1 79.50
	29	51.410 59	27.32 146	34.296 86	32.28 182	33.187 51	47.58 247	60.847 59	81.89 215
Sept.	7	51.469 19	28.78 122	34.382 24	34.10	33.238 8	50.05 227	60.906 17	84.04
	17	51.488	30.00 08	34.406 =	36.07 202	$33.246 \frac{3}{33}$	52.32 202	60.923 =	85.97 169
This is	27	51.469 50	30.98 74	34.372 0-	38.10 202	33.213 68	54.34 ***	60.901	87.60
Okt.	7	51.419 77	31.72 50	34.285	40.12	33.145 <sub>98</sub>	56.08 144	60.845	89.09
	17	51.342 98	32.22	34.154 167	42.02 172	33.047	57.52 111	60.761 64	90.23 84
	27	51.244	32.49 3	33.987 191	43.74 145	32.926	58.63 75	60.654 123	91.07 52
Nov.	6	51.133	$32.52 \frac{3}{18}$	33.790 206	45.19 111	32.787	59.38 39	1 60.52T	91.59 21
	16	51.013	32.34 39	33.590	46.30 74	32.030	59.77 <sub>1</sub>	00.390	91.80 =
D	26	50.892	31.95 58	33.381 202	47.04 33	32.484	$59.78 = \frac{1}{36}$	1 00.201 706	91.69 43
Dez.	6	50.775 110	31.37 75	33.179 188	47.37 -	32.331 147	59.42 73	60.125 130	91.26 73
	16	50.665 98	30.62	32.991 166	47.27 52	32.184 135	58.69 107	59.995 119	90.53 101
	26	50.567 82	29.71 103	32.825	46.75 94	32.049 120	57.62 138	59.876 105	89.52
31.54	36	50.485	28.68	32.688	45.81	31.929	56.24	59.771	88.25
Mittl	. Ort	49.024	.15.04	30.683	44.47	30.830	36.89	58.497	70.56
	, $tg \delta$	1.017	+0.186	1.471	-1.078	1.154	+0.576	1.089	+0.430
	a'	+3.0	+18.8	+3.6	+18.8	+2.8	+18.8	+2.9	+19.0
Ъ,	b'	-o.oı	+ 0.35	-0.07	+ 0.34	+0.04	+ 0.34	+0.03	+ 0.33

		86o) €	Gruis	863) ı	Cephei	1599) 69 (	G. Gruis	864) λ A	quarii
T	ag	AR.	Dekl.	AR	Dek	AR.	Dekl.	AR.	Dekd.
1	947	22 <sup>h</sup> 45 <sup>m</sup>	-51°35'	22 <sup>h</sup> 47 <sup>m</sup>	+65° 54'	22 <sup>h</sup> 47 <sup>m</sup>	-39° 26′	22 <sup>h</sup> 49 <sup>m</sup>	-7° 51'
Jan.	I	19.866	67.50 129	44.59 40	86.23 167	59.788 103	36.28	49.420	54.29 48
	II	19.720	66.21 160	44.19	84.50	1 59.685	35.49	49.350 50	54.77 36
	21	19.613 65	04.52	43.05 28	82.40	59.611	34.38	49.300 28	55.13 24
T 1	31	19.548 19	62.48	43.57 20	79.05 280	59.509 8	32.95	49.272	55.37 9
Febr.	10	19.529 28	00.14 257	43.37 12	77.00 303	59.561 =	31.24 195	49.269 =	55.46 8
	20	19-557 78	57.57 277	43.25 2	73.97 309	59.590 67	29.29 216	49.293 55	55.38 28
März	2	19.635 128	54.80 289	43.23 7	70.88	59.0570	27.13 233	49.348 86	55.10 50
	12	19.763 179	51.91 297	43.30 17	07.00 282	59.705 150	24.80 245	49.434 121	54.60 73
April	22	19.942 231	48.94 298	43.47 27	65.04 252	59.915 192	22.35 254	49.555 156	53.87 96
April	I .	20.173 280	45.96 293	43.74 35	62.52 211	60.107 233	19.81 257	49.711 191	52.91 119
	II	20.453 326	43.03 282	44.09 43	60.41 163	60.340 272	17.24 255	49.902	51.72 141
Mai	21	1 20.770	40.21 265	44.52 50	58.78 109	60.612 309	14.69 248	50.126	50.31 161
mai	I	21.140	37.56 <sub>243</sub>	45.02 55	57.69 52	60.921 340	12.21 236	50.381 281 50.662 203	48.70 176
	21		35.13 214	45.57 -8	57.17 8	61.626	9.85 219	50.002	46.94 189
		21.988 454	32.99 182	46.15 59	57.25 <sub>66</sub>	303	7.66	50.964 316	45.05 195
	31	22.442 465	31.17 144	46.74 <sub>60</sub>	57.91 123	62.009 392	5.71 168	51.280 323	43.10
Juni	10	22.907	29.73 104	47.34 57	59.14 176	02.401	4.03 135	51.603 321	41.13 195
	20	23.370 450	28.69 60	47.91 54	60.90 224	62.792 381	2.68	51.924 312	39.18 186
Juli	30	23.020 426	28.09 15	40.45	63.14 266	63.173 360	1.68 63	52.236 294	37.32 173
Jun		24.246 391	27.94 = 29	48.94 44	65.80 302	63.533 331	1.05 23	52.530 269	35·59 <sub>156</sub>
2 - 10	20	24.637 346	28.23 73	49.38 36	68.82 330	63.864	0.82	52.799 238	34.03 135
A	30	24.903 201	28.96 113	49.74 28	12.12	04.1.70	0.97 53	53.037 202	32.68
Aug.	9	25.274 231	30.09 148	50.02 20	75.64 364	04.407	1.50 88	53.239 162	31.56 88 30.68 62
	19	25.505 165	31.57 178	50.22	14.20 -6-	146	2.38 118	53.401 120	20.05
	29	25.670 98	33.35 202	50.33 3	82.97 368	64.753 91	3.56 143	53.521 77	30.05 37
Sept.	7	25.768 30	35.37 216	50.36 6	86.65 358	64.844 36	4.99 162	53.598 35	29.68
	17	25.798 = 35	37.53 222	50.30	90.23 241	64.880 =	6.61	53.633 = 2 53.631 27	29.53 7
Okt.	<sup>2</sup> 7	25.763 92	39.75 219	50.17 21	93.64 317	64.865 61	8.34 176	E2 E04 3/	29.85
O.C.	17	25.671 143 25.528 183	41.94 206	49.96 28 49.68 33	96.81 285 99.66 248	64.804	10.10 172 11.82 160	F2 F20	20.24
			44.00 184			64.704 132	1	Margar Trial	51
Nov.	6	25.345 213	45.84 155	49.35 38	102.14 204	64.572	13.42	53.443 103	30.75 <sub>59</sub>
110 4.	16	25.132 231	47.39 119	48.97 42	104.18	64.418 167	14.82	53.340 <sub>111</sub> 53.229 <sub>114</sub>	31.34 <sub>64</sub> <sub>31.98 <sub>67</sub></sub>
	26	24.901 237 24.664 233	48.58 77	48.55 45 48.10 46	105.72 100	64.251 <sub>172</sub> 64.079 <sub>168</sub>	15.97 85 16.82 51	53.115 112	22 65
Dez.	6	24.43I <sub>218</sub>	49.33 32	47.64 46	$107.15 \frac{43}{16}$	63.911 156	17.33 14	53.003	33.30 63
	16	24.213	40 52	47.19 45	106.00	63.755 140	T7 47	52.800	33.03
	26	24.018 165	48.92	46.74 45	106.23 76	63.615	TE OF 22	52 806 93	24 50
	36	23.853	47.87	46.32	104.91	63.498	16.67	52.728 78	35.00
Mittl.	Ort	21.808	45.77	47.18	77.04	61.521	16.93	50.992	43.64
sec δ,			-1.262	2.451	+2.238		-0.823		-0.138
	a'		+19.0	-2.I	+19.1	The second second	+19.1		+19.1
<i>b</i> ,			+ 0.32	+0.14	+ 0.31		+ 0.31	-o.or	+ 0.30

Ta		865) p	Indi	866) δ A	quarii	867) α Pisc	eis austr.¹)	869) o And	lromedae
18	*6	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
19.	47	22 <sup>h</sup> 50 <sup>m</sup>	-70°21'	22 <sup>h</sup> 51 <sup>m</sup>	-16° 5′	22 <sup>h</sup> 54 <sup>m</sup>	-29°53′	22 <sup>h</sup> 59 <sup>m</sup>	+42° 2′
Jan.	I	57.49 36	51.03 195	48.782	84.51	41.972 87	90.06	26.824 165	31.87 <sub>156</sub>
	II	57.13 29		18 700	84.68	4T 88E	80.60	20.050	30.31 189
	21	56.84 21	46.68 280	48.656	84.68	41.822	89.04	26.518 111	28.42
	31	56.63	1 00 200	48.627	84.40	41.785	88.12		26.26 234
Febr.	10	56.52 2	43.88 310 40.78 334	$48.623 \frac{4}{24}$	84.10 39	$41.778 \frac{7}{24}$	86.94	26.33I 76 26.33I 34	23.92 234
	20	56.50 7	37.44	48.647 56	83.51 79	41.802 58	85.53	26.297 12	21.50 239
März	2	56.57	1.5.5.94	48.703	82.72	41.860	1.03.00 .	26.309 61	19.11
	12	50.74		48.791 122	81.72	41.955	82.00	26.370 113	16.85
3	22	57.01 26	20.01 248	48.913	80.51	42.087	00.07	26.483 .6.	14.83
April	Ι	57.37 45	23.33	49.072	79.09 160	42.257 208	77.94 223	26.647 215	13.11
	II	57.82 58.35 53	20.00 312	49.266 228	77.49 176	42.465 246	75.71 229	26.862 261	11.78 88
35 .	21	30.33 60		49.494 259	75.73 189	42.711 279	73.42 231	27.123 302	10.90 39
Mai	I	58.95 67	14.00	49.753 287	73.84	42.990	71.11 226	27.425 336	10.51
	11	59.62 72	11.59 208	50.040 308 50.348 323	71.87 202	43.499 222	68.85	21.701	10.62 62
	21	60.34 74	9.51 163	50.348 323	69.85 200	43.031 350	66.68 204	20.122 376	11.24 111
	31	61.08 6r.85	7.88	50.671 331	67.85	43.981 359	64.64 184	28.498 382	12.35 157
Juni	10		0.74 62	71.002	05.90	44.340 358	02.80	20.000 376	13.92 TOT
	20	02.02	0.11		04.07 -60	44.340 44.698 350	01.20	29.250 362	15.89 224
	30	0.3.3/	6.00 =	51.654 304	62.39		1 59.09 TOT	29.018	18.23 261
Juli	10	64.08 65	6.41 91	51.654 304 51.958 279	00.92	45.381 306	58.88 67	29.955 305	20.87 286
	20	64.73 58	7.32	52.237 248	59.69 98	45.687	58.21 32	30.260 265	23.73 304
	30	05.31	8.71 182	52.485	58.71 70	45.959 222	57.89 =	30.525 220	20.77
Aug.	9	65.80 38	10.54	52.696	58.01 42	40.192	57.91 25	30.745	29.90 215
	19	65.80 <sup>49</sup> 66.18 <sub>26</sub>	12.72 248	52.866 126	57.59 14	46.380	58.26 66	30.917	33.05 212
	29	66.44 15	15.20 268	52.992 82	57.45 11	46.520 91	58.92 92	31.038 71	36.17 302
Sept.	7	66.59	17.88 278	53.074 30	57.56	46 6TT	59.84 114	31.109 21	39.19 286
	17	66.61 —	20.66 277	$\frac{53.574}{53.113} \frac{39}{1}$	57.OT 33	$46.654 \frac{43}{2}$	60.98	31.130 =	42.05 266
	27	66.51	23.43 26.	53.112 36	58.44 69	46.652	02.27	31.105 67	44.71 239
Okt.	7	66.31	26.07	53.076 67	50.13	46.609	03.05	31.038	47.10 208
19.6	17	66.00 31	28.49 209	53.009 90	59.92 85	46.532 77	65.05 136	30.934 134	49.18
	27	65.61	30.58 167	52.919 106	60.77 87	46.426	66.41	30.800 159	50.92 135
Nov.	6	05.15	32.25 118	52.813	61.64 82	40.301	07.00	30.041	52.27 93
	16	04.05	33.43 63	52.696	02.47 76	40.105	68.75 88	30.404 180	53.20 49
2016	26	04.13		52.576	63.23. 67	46.024	69.63 64	30.275	53.69 3
Dez.	6	63.61	$34.06$ $34.11$ $\frac{5}{54}$	52.460 110	63.90 55	45.885 130	70.27 36	30.081 193	53.72 42
	16	63.11	33.57 111	52.350 97	64.45 40	45.755 116	70.63 8	29.888 186	53.30 88
	26	02.04	32.46	52.253 82	64.85 26	45.639 97	70.71 -	29.702 173	52.42 130
-	36	62.24	30.80	52.171	65.11	45.542	70.50	29.529	51.12
	. Ort	60.14	26.67	50.354	71.33	43.586	72.92	28.600	27.22
	, tgδ	2.975	-2.802	1.041	-0.289	1.154	-o.575	1.346	+0.902
	a'	+4.2	+19.1	+3.2	+19.2	+3.3	+19.2	+2.8	+19.3
b,	b'	-o.18	+ 0.30	-0.02	+ 0.29	-0.04	+ 0.28	+0.06	+ 0.26

1) Die jährliche Parallaxe (o."135) ist bereits berücksichtigt.

	2 2 1 1 2	870) β	Pegasi	871) α P	egasi	873) 88 4	Aquarii	875) Br 30	77 Cass <sup>1</sup> )
Та	g	AR,	Dekl.	AR.	Dekl.	AR.	Dekl	AR.	Dekl.
19.	47	23 <sup>h</sup> 1 <sup>m</sup>	+27° 47′	23 <sup>h</sup> 2 <sup>m</sup>	+14° 54′	23 <sup>h</sup> 6 <sup>m</sup>	-21°27′	23 <sup>h</sup> 10 <sup>m</sup>	+56° 52'
Jan.	I	10.429	42.65 138	5.554 02	67.76	35.894 86	52.31	41.164 270	40.16
	11	10.314 95	41.27	5.462 73	00.03	35.808 66	$52.32 \frac{1}{23}$	40.894	38.71
	21	10.219 73	39.67	5.389 53	65.40	35.742	52.09	40.654	36.80
A PARTY	31	10.146	37.92 182	5.336 29	64.12	35.698 19	51.64 68	40.455	34.51 258
Febr.	10	10.102 12	36.09 184	5.307	62.85	35.679 -	50.96	40.306 91	31.93 275
	20	10.090 25	34.25 175	5.307 33	61.64 107	35.688 40	50.04 113	40.215 26	29.18 282
März	2	10.115 64	32.50 158	5.340 67	60.57 87	35.728	48.91	40.189 =	26.36
	12	10.179	30.92	5.407 104	59.70 63	35.802 110	47.56	40.234 118	23.59 260
	22	10.285	29.58	5.511	59.07 33	35.912 146	46.00	40.352	20.99
April	r	10.434 191	28.55 66	5.653 181	58.74 0	36.058 184	44.26 190	40.542 260	18.67 195
	II	10.625	27.89 25	5.834 217	58.74 35	36.242 221	42.36 203	40.802 323	16.72 150
-	21	10.856 266	27.64 =	6.051	59.09 71	36.463	40.33	41.125 379	15.22
Mai	1	11.122	27.81 61	0.301 278	59.80 105	36.717 285	38.22	41.504 424	14.22 45
	II	11.418 319	28.42 102	0.579	60.85	37.002 309	30.05 216	41.928 458	13.77
	21	11.737 335	29.44 142	6.880 316	02.22 167	37.311 327	33.89 210	42.380 478	13.88 66
	31	12.072 340	30.86	7.196 323	63.89 190	37.638 338	31.79 200	42.864 485	14.54 119
Juni	10	12.412 338	32.64 207	7.519	65.79	27.070	29.79 -0-	43.349	15.73 170
	20	12.750 327	34.71 233	7.841 212	67.89 222	38.310	27.90 ,62	43.020 460	17.43 215
	30	13.077	37.04 252	0.154 205	70.12	30.049 310	20.33	44.288	19.58 256
Juli	10	13.384 280	39.56 264	8.449 271	72.43 233	38.968 295	24.95	44.718 388	22.14 289
3 3	20	13.664 247	42.20 271	8.720 240	74.76 230	39.263 266	23.85 80	45.106 339	25.03 316
	30	13.911 208	44.91 271	8.960	77.06 221	39.529 230	23.05 49	45.445 282	28.19 225
Aug.	9	14.119 166	47.62 266	9.164 165	79.27 209	39.759 188	22.56	45.727 220	31.54 348
7-12-	19	14.285	50.28 255	9.329 124	81.36	39.947 145	$\frac{22.39}{13}$	45.947 156	35.02 353
	29	14.406	52.83 240	9.453 81	83.28 172	40.092 100	22.52 40	46.103 91	38.55 350
Sept.	7*)	14.483 34	55.23 221	9.534 41	85.00 151	40.192 55	22.92 65	46.194 27	42.05 342
	17	14.517 6	57.44 197	9.575 3	86.51	40.247	23.57 84	46.221 33	45.47 325
01-4	27	14.511 41	59.41	9.578 30	87.78 102	40.261 =	24.41 98	46.188 91	48.72 303
Okt.	7	14.470 73	61.13 143	9.548 60	88.80 78	40.236 58	25.39 108	46.097 143	51.75 274
	17	14.397 99	62.56 113	9.488 82	89.58	40.178 83	26.47	45-954 188	54.49 239
	27	14.298 117	63.69 80	9.406 100	90.10	40.095 104	27.57 108	45.766 225	56.88 198
Nov.	6	14.181	64.49	9.306	90.37 2	39.991 116	28.65	45.541 26	1 58.86
	16	14.049 139	64.95 11	9.194 118	90.39 21	39.875 122	29.65 88	45.285 279	60.38 103
Dez.	26 6	13.910	65.06 =	9.076 119	90.18	39.753 122	30.53 73	45.006 293	61.41 50
Dez.	0	13.767 140	64.83 58	8.957 116	89.73 66	39.631 118	31.26 54	44.713 298	61.91 5
	16	13.627 132	64.25 89	8.841 108	89.07 85	39.513 107	31.80 34	44.415 294	61.86 60
	26	13.495 122	63.36	8.733	88.22	39.406	32.14	44.121 280	61.26
14.30	36	13.373	62.16	8.636	87.20	39.313	32.27	43.841	60.14
Mittl	. Ort	12.049	41.94	7.098	71.04	37.384	37.42	43.192	31.80
sec δ,		1.130	+0.527	1.035	+0.266	1.075	-0.393	1.830	+1.533
a,		+2.9	+19.4	-+3.0	+19.4	+3.2	+19.5	+2.6	+19.6
<i>b</i> ,	<i>b'</i>	+0.03	+ 0.25	+0.02	+ 0.25	-0.03	+ 0.23	+0.10	+ 0.21
	1) D	ie jährliche Para	llaxe (0."146)	ist bereits berüc	ksichtigt.				

<sup>\*)</sup> Bei Stern 873) und 875) lies Sept. 8.

-		877) y T	naanaa	0,01 1	Disaium	870) 14 94	ulntoria	990) -	Domani
Ta	ıg		,	878) γ Ι		879) γ Se		880) τ	
-	-50-	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
194	47	23 <sup>h</sup> 14 <sup>m</sup>	-58°31′	23 <sup>h</sup> 14 <sup>m</sup>	+2° 59′	23 <sup>h</sup> 15 <sup>m</sup>	-32° 48′	23 <sup>h</sup> 17 <sup>m</sup>	+23° 26′
Jan.	I	19.210	50.04	23.556 84	25.69	56.528	93.66	59.089	59.76
	11	TR 087 229	59.04 <sub>131</sub> 57.73 <sub>178</sub>	22 472	24.90 79	76 470	02 20 3/	r8 077	-8 -6
	21	T8.70T	55.95 219	22 402	21.13	1 56 222	02 60	58.870	F7 T8 130
	31	18.648	53.76 254	22 252	22 10	r6 268	от.6т	58.802	rr 66 "3"
Febr.	10	TR CCC 93	51.22 284	22 224	22.75	56 222	90.32 156	58.749 53	54.08 158
	7.33	37.		-3	2.	200			- 30
	20	18.516	48.38 307	23.321	22.24 35	56.228	88.76	58.726	52.50 150
März	2	18.536 80 18.616	45.31 322	23.348 59	21.89 15	56.257 66	86.96 201	58.736	51.00 134
	12 22	18.010	42.09 332	23.407 95	21.74 10	56.323 106	84.95 219	58.783 87 58.870 130	49.66
April	I	18.759 205 18.964 266	38.77 334	23.502	22.20	56.429 146	82.76 234	£8 000 129	48.55 82
119111	_	266	35.43 329	23.633 168	64	56.575 187	80.42 245	30.999 171	47.73 48
	II	19.230 <sub>326</sub> 19.556 <sub>381</sub>	32.14 318	23.801 205	22.84 92	56.762 227	77.97 250	59.170 212	47.25 11
465	21	19.556 381	28.90 300	24.006	23.76	56.989 265	75.47 250	59.382 248	47.14 = 28
Mai	I	10.037	25.96 275	24.244 267	24.95	57.254 200	72.97 246	59.630 280	47.42 68
	ÍI	20.50/	23.21	24.511	20.40	57.553	70.51 226	59.910 305	48.10
	21	20.03/ 501	20.76 208	24.802 309	28.07 185	57.880 349	68.15 220	60.215 305	49.17 142
	31	21.338 521	18.68 167	25.111 319	29.92 198	58.229 362	65.95 199	60.538 60.851	50.59 174
Juni	10		17.01	25.430 319	31.90 207		63.96	00.071	52.33 201
	20	22.288	TC 70	25.75I	33.97 209	58.957 <sub>362</sub>	02.23	61.205 334 6x 52x	54.34 224
	30	22.911	15.05 25	26.065	36.06 206	59.319 349	60.80 108	01.531 210	56.58
Juli	10	23.415 471	14.80 =	26.366 278	38.12	59.668 349	59.72 73	61.841 287	58.97 250
	20	22 886					100		
	30	23.886 427	15.04 73	26.644 250	40.11 186	59.994 295	58.99 34 58.65 4	62.128 <sub>256</sub> 62.384 <sub>221</sub>	61.47
Aug.	9	24.313 370 24.683 307	15.77 120	26.894 217	41.97 169	60.289 <sup>257</sup> 60.546 214	58.69		64.01 252
5.	19	24 088 303	16.97 <sub>160</sub> 18.57 <sub>195</sub>	27.111 <sub>180</sub> 27.291 <sub>120</sub>	43.66 151 45.17 129	60 760	59.08 39	606	66.53 246 68.99 235
	29	25.220	20.52 223	27 420	46.46 106	60.006	59.81 73	62.025	71.34 219
a .	4/19			99		110		97	
Sept.	8	25.374 76	22.75 243	10 <sup>27</sup> ·5 <sup>29</sup> 59	47.52 81	61.044 68	60.84 128	63.022 56	73.53 199
	17	25.450 2	25.18 252	27.588 21	48.33 59	61.112 20	62.12	63.078 16	75.52 178
Okt.	27	25.448	27.70 251	27.609 -	48.92 37	61.132 = 23	03.57 TE6	63.094 =	77.30
OKt.	7	25.373 141	30.21 240	27.596 42	49.29 16	61.109 61	65.13 160	63.074 51 63.023 77	78.83 127 80.10
	-1	25.232 198	32.61 218	<sup>27.554</sup> 66	49.45 3	61.048 92	66.73	03.023 77	98
-	27	25.034 242	34.79 188	27.488 85	49.42 20	60.956	68.30	62.946	81.08 69
Nov.	6	24 702	36.67	27.403	49.22	60.830	09.75	62.849	81.77
	16	24.510 204	38.17 104	27.306 104	48.88	1 00.705	71.02 105	62.736	82.17 9
	26	24.24 200	39.21 54	27.202	48.41 58	1 00.501	12.01 78	62.613	82.20 21
Dez.	6	23.925 293	39.75 2	27.096 105	47.83 66	60.416	72.85	62.485 129	82.05 51
	16	23.632 275	39.77	26.991	47.17	60.275 132	73.32 15	62.356 125	81.54 70
	26	23.357	39.26 102	26 802	16 16 /	60.143	72 17	62.231	80.75 104
	36	23.108	38.24	26.803	45.70	60.026	73.30	62.114	79.71
35112				S. 1 34 - 16				3753 53 53	
Mittl.		20.943	35.42	25.000	32.76		75.47	60.594	60.06
sec δ,		1.915	-1.634		+0.052	1.190	-0.645		+0.434
a, $b,$			+19.6		+19.6		+19.7		+19.7
0,		-o.11	+ 0.20	0.00	+ 0.20	-o.o4	+ 0.19	+0.03	+ 0.18

JUNE 200		A Maria	15-14		9		The state of the		
Та	12	882) 4 Ca	ssiopeiae	884) × I	Piscium	885) 70	Pegasi	388) 248 (	. Aquarii
	-6	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
19.	47	23 <sup>h</sup> 22 <sup>m</sup>	+61° 59′	23 <sup>h</sup> 24 <sup>m</sup>	+o° 57*	23 <sup>h</sup> 26 <sup>m</sup>	+12° 27′	23 <sup>h</sup> 32 <sup>m</sup>	-7° 45′
Jan.	I	26.22 25.87 35	39.89 126	11.470 89	47.22 72	26.896	61.28	46.690 91	38.92
	11	25.01 22	38.63	11.381 75	46.50	26.797 -80	60.31 97	46.599 70	39.41
	21	25.55 28	30.80	11.306 58	45.80 62	26.712 68	59.26	46.520 62	39.78
1	31	25.27 22	34.67	11.248 37	45.18	26.644	58.18 107	46.458	10.00
Febr.	10	25.05	32.13 277	11.211	44.66 39	26.597	57.11	46.416 18	$\frac{40.00}{40.07} \frac{7}{12}$
Section 1	-20	24.90 8	29.36 290	11.199 16	44.27 22	26.576	56.10 88	46.398 10	39.95 31
März	2	24.82 -	20.40	11.215 49	44.05	26.585 43	55.22	46.408 42	39.64 54
	12	24.83	1 23.50	11.264 83	44.04 =	26.628	54.52	46.450 76	39.10
	22	24.92 18	20.79 254	11.347 121	44.26	26.707 118	54.05 20	46.526 113	38.33 <sub>101</sub>
April	I	25.10 26	10.25 221	11.468	44.74 75	26.825 158	53.85 -	46.639 151	37.32 124
	II	25.36 33	16.04 178	11.626	45.49 102	26.983 196	53.95 43	46.790 188	36.08 146
	21	25.09	14.20	11.821	46.51 128	27.179 222	54.38 76	46.978 224	34.62 166
Mai	I	20.10 46	12.96 76	12.050	47.79 151	27.411 263	55.14 108	47.202 256	32.96 184
	II	26.56	12.20 21	12.311 286	49.30 172	27.674 290	56.22 138	47.458 284	31.12 196
	21	27.06 52	11.99 36	12.597 305	51.02 188	27.964 308	57.60 164	47.742 304	29.16 205
	31	27.58 54	12.35 92	12.902 316	52.90 199	28.272 320	59.24 187	48.046 317	27.11 207
Juni	10	28.12	13.27	13.218 320	54.89 206	20.502 222	01.11	40.303	25.04 206
	20	28.00	14.71	13.218 320	56.95 207	20.915 210	03.15	40.000 221	22.98 198
	30	29.18 48	10.05	13.054	59.02	29.234 305	05.32	49.007	21.00 186
Juli	10	29.66	19.02 276	14.157 283	61.05 193	29.539 284	07.55 224	49.317 291	19.14 169
	20	30.11	21.78 307	14.440 256	62.98 179	29.823 257	69.79 219	49.608 266	17.45 148
	30	30.50	24.85	14.696 256	04.77 162	30.080 224	71.98	49.874 225	15.97 125
Aug.	9	30.83	28.16	14.920	66.39	30.304 188	74.09 108	50.109 108	14.72 98
	19	31.08	31.64 250	15.107	67.80 118	30.492 148	76.07 180	50.307 159	13.74 71
	29	31.27 12	35.23 361	15.255 108	68.98 95	30.640 107	77.87 161	50.400 119	13.03 45
Sept.	8	31.39 4	38.84 356	15.363 68	69.93 70	30.747 67	79.48	50.585 78	12.58 19
	17	31.43 -	42.40	15.431 30	70.63	30.814 30	00.07 116	550.663 40	12.39 -
3	27	31.41 10	45.84 344	15.461	71.10 25	30.844	82.03	50.703 4	12.44 25
Okt.	7	31.31 16	49.10	15.456	71.35 5	30.839	82.96 60	50.707 =	12.69 43
	17	31.15 21	52.09 267	15.422 59	71.40 -	30.804 60	83.65 46	50.680 54	13.12 56
100	27	30.94 26	54.76 228	15.363 79	71.27 28	30.744 8o	84.11	50.626 75	13.68 66
Nov.	6	30.68 30	57.04 182	15.284	70.99 41	30.664 95	84.34	50.551 80	14-34 71
	16	30.68 30 30.38 34	58.87	15.192	70.58 52	30.569 106	84-35 =	50.462 100	15.05 73
	26	20.04	60.20	15.091	70.06 60	30.463 110	84.15 39	50.362 105	15.78 72
Dez.	6	29.00 37	60.99 23	14.986	69.46 66	30.353 111	83.76 58	50.257 105	16.50 68
	16	29.31 37	61.22	14.881	68.80 <sub>69</sub>	30.242 109	83.18 74	50.152 102	17.18 62
	26	20.94 26	00.00	14.780	68.11	30.133 102	82.44 87	50.050 96	17.80 54
Yalla.	36	28.58	59.98	14.688	67.40	30.031	81.57	49-954	18.34
Mittl.	CONTRACTOR (1)	28.32	30.08	12.856	54.90	28.303	65.04	48.012	28.35
sec δ,			+r.88o	1. CANADA - 1. CAN	+0.017	CONTROL OF COLUMN TO A SECOND	+0.221		<b>-0.13</b> 6
	a'	+2.7	+19.8	Company of the Compan	+19.8		+19.8		+19.9
<i>b</i> ,	<i>b'</i>	+0.12	+ 0.16	0.00	+ o.16	+0.01	+ 0.15	-o.or	+ 0.12

M 47

-	-	0 \ 1	Total Carlo	0 ) 1 -	45.00		0 1		
Ta	g	890) λ And	The second	891) t And		893) Y		892) i Pi	
-		AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
. 194	17	23 <sup>h</sup> 34 <sup>m</sup>	+46° 9′	23 <sup>h</sup> 35 <sup>m</sup>	+42° 58′	23 <sup>h</sup> 37 <sup>m</sup>	+77° 19′	23 <sup>h</sup> 37 <sup>m</sup>	+5° 20′
Jan.	1	56.076 202	82.02	30.193 184	34.24 119	5.87 90	84.03 84	12.017	14.00 80
	II	55.874	80.81	30.000	33.05	4.97 85	83.10	11.922 84	13.20 82
	21	55.689 160	79.20	29.840	31.48 .00	4.12 75	81.76	11.838	12.38 78
3 7 1 2	31	55.529 ras	77.25 2201	29.094	29.60	3.37 62	79.00 241	11.768 49	11.60 72
Febr.	10	55.401 87	75.05 236	29.578 79	27.48 225	2.75 <sub>48</sub>	77.39 276	11.719 26	10.88 62
	20	55.314 41	72.69 243	29.499 35	25.23 230	2.27 32	74.63 300	11.693	10.26
März	2	55.273 -	70.20	29.464	22.03	1.95 13	71.03	11.696	9.79 28
	12	55.284 68	07.07	29.479 67	20.68	$1.82 - \frac{1}{6}$	08.53	11.731	9.51 4
	22	55.352 126	05.03	29.546	18.59 ,8	1.88	05.40 202	11.801 108	9.47 21
April	I	55.478 183	63.63 167	29.667 176	16.74 151	2.13 42	62.53 268	11.909 147	9.68 49
	II	55.661 238	61.96	29.843 228	15.23 112.	2.55 59	59.85 231	12.056 185	10.17
-23	21	55.800 00	00.09 82	30.071	14.11 68	3.14	57.54 -86	12.241	10.94 106
Mai	Ι	56.187 331	59.87 22	30.347 317	13.43 20	3.88 85	55.68	12.462	12.00 133
	II	70.710	59.54 = 17	30.664	13.23 =	4.73 94	54.33 80	12.710	13.33 157
	21	56.883 389	59.71 67	31.013 374	13.52 77	5.67 101	53.53 22	12.997 302	14.90 177
	31	57.272 402	60.38 116	31.387 387	14.29 123	6.68	53.31 <sub>37</sub>	13.299 315	16.67 194
Juni	10	57.074 406	01.54	31.774 280	15.52	7.71	53.68	13.014	18.61
	20	58.080	63.14	32.163 383	17.19	8.73 100	54.62	13.935	20.05 200
	30	58.477 000	65.14 226	32.546 365	19.23	9.73	56.11	14.254	22.74 210
Juli	10	50.055 351	07.50 266	32.911 339	21.01 265	10.68 86	58.10 245	14.501 289	24.84 205
15 100	20	59.206 315	70.16 288	33.250 305	24.26 286	11.54 77	60.55 286	14.850 264	26.89 195
	30	59.521 272	73.04	33.555 264	27.12	12.31 64	1 62.4T	15.114	28.84 181
Aug.	9	59.794 226	70.10	33.819	30.12 208	12.95 52	00.00	15.347 108	30.65 162
	19	60.020	14.470	34.039	33.20	13.47 38	10.01 266	15.545	32.27 143
	29	60.196 176	02.43 314	34.211 122	36.29 304	13.85 23	73.73 378	15.704 120	33.70 120
Sept.	8	60.320 72	85.57 306	34.333 74	39-33 294	14.08 9	77.51 383	15.824 80	34.90 96
	17	60.392 24	00.03 20T	34.407 26	42.27 278	14.17 -6	01.34	15.904	35.86
	27	60.416 =	91.54 260	34.433 -18	45.05	14.11	05.12 .0	15.047	36.60 50
Okt.	7	60.393 66	94.23	34.415 58	47.62	13.90 35	00.01	15.956 =	37.10 29
	17	60.327 103	96.67 213	34·357 <sub>93</sub>	49-93 200	13.55 48	92.31 332	13.934 48	37.39 9
	27	60.224	98.80	34.264 124	51.93 165	13.07 59	95.53 287	15.886 69	37.48 9
Nov.	6	1 00.000	1100.57	34.140	53-58 736	12.48 71	08.40	15.817	37.39 26
	16	59.927 183	101.94	33.992 167	54.84 85	11.77	100.85	15.732	37.13 40
	26	1 39.144 108	102.09 40	33.825 182	55.09 42	10.98 87	102.01	15.030 102	36.73 52
Dez.	6	59.546 207	103.38	33.643 189	56.11 -	10.11 91	104.22 82	15.534 104	36.21 62
	16	59.339 209	103.39 46	33.454 191	.56.07 49	9.20	105.04 19	15.430 103	35.59 71
	26	59.130 205	102.93	33.263 188	55.58	8.27 qI	105.23 -	15.327 98	34.88 76
- Torre	36	58.925	102.01	33.075	54.66	7.36	104.80	15.229	34.12
	l. Ort	57.702	75-32	31.773	28.37	9.07	71.57	13.342	20.06
	, tg δ	1.444	+1.042	1.367	+0.932	4.562	+4.451	1.004	+0.093
	a'	+2.9	+19.9	+2.9	+19.9	+2.5	+19.9	+3.1	+19.9
<i>b</i> ,	b'	+0.07	+ 0.11.	+0.06	+ 0.11	+0.30	+ 0.10	+0.01	+ 0.10

· ·	1	894) ω <sup>2</sup> A	Aquarii	895) 41 H	. Cephei	896) 8 Ser	ulptoris	898) φ <sup>]</sup>	Pegasi
Ta	'£  -	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
19.	47	23 <sup>h</sup> 39 <sup>m</sup>	-14° 50′	23 <sup>h</sup> 45 <sup>m</sup>	+67°30′	23 <sup>h</sup> 46 <sup>m</sup>	-28° 25'	23 <sup>h</sup> 49 <sup>m</sup>	+18° 49′-
Jan.	ı	57.203	30.12	19.50 47	55-74 89	8.878	41.42	45.960	32.10
	11	FF TOF	30.42 30	19.03 44	54.85	8 76T	5	15 846	31.15 95
	21	57.021 <sub>69</sub>	30.55 = 8	18.50	53.40	8.658 85	41.37 <sub>36</sub> 41.01 <sub>67</sub>	45.740	30.05 120
	31	56.952	30.47 30	18.19	51.46 235	8.573 63	40.34 98	15.648	28.85 126
Febr.	10	56.903 24	30.17 52	17.85 34	49.11 267	8.510 37	39.36 98	45.575 48	27.59 124
	20	56.879	20.65	17.60	46.44 287	8.473 6	38.10	45.527 18	26 25
März	2	r6 882	28.01	17.43 6	43.57 296	$8.467 \frac{0}{28}$	26 58 154	45.509 16	25.18 104
	12	76 OT7 35	27.94 97	17.37	40.61 291	8.495 66	34.80 199	15.525	24.14 83
	22	56.988 71	26.74 143	17.41	37.70 275	8.561	32.81 218	45.579 <sub>96</sub>	22.2T
April	I	57.096 146	25.31 143	17.56 25	34.95 248	8.667	30.63 233	45.675 138	22.72 29
	11		23.68		1211 -	8.815 188		45 ST2	22.42
	21	57.242 <sub>184</sub> 57.426 <sub>232</sub>	21.86	17.81 <sub>36</sub> 18.17 <sub>44</sub>	32.47 <sub>212</sub> 30.35 <sub>167</sub>	9.003 188	28.30 25.85 251	45 000	00.48
Mai	r	6.0	19.89 209		1 08 68	0 222	23.34 252	16 2TT	00 86 30
	II	57.048 <sub>255</sub> 57.903 <sub>284</sub>	17.80	TO 12	07 57	0.408	20.82	46.466 255	22 60 74
	21	58.187 306	15.65 218	19.70 61	1 26 80	0.705	18.34 238	46.750 308	24.68
	9/4/1	MUNICIPAL PROSPERATION OF THE PROPERTY OF THE	NORGES IN THE		2	1 3~3			145
No.	31	58.493 322	13.47 214	20.31 64	26.84 50	10.118	15.96 221	47.058 323	26.08 168
Juni	10	58.815 329	11.33 205	20.95 64	27.34 106	10.400 251	13.75 201	47.301 220	27.76
	20	59.144 328	9.28 191	21.59 63	28.40	10.811 352	11.74 174	47.710 328 48.038 318	29.67 <sub>211</sub> 31.78 <sub>224</sub>
Juli	30	59.472 319	7.37 173	22.22 60	29.98 206	11.163 344	8.56	48.356	24.02
Jun		59.791 <sub>301</sub>	5.64 149	22.82 60	32.04 249	340	0.50 109	300	231
	20	60.092	4.15 123	23.38 50 23.88 43	34.53 287	11.835 303	7.47 73	48.656 276	36.33 234
	30	60.309	2.92		37.40 317	12.138 270	6.74 35	48.932 244	38.67 231
Aug.	9	60.615 210	1.98 64	24.31 36	40.57 340	12.400 222	6.39 =	49.176 209	40.98 222
	19	60.825	T.34 33	24.67 27	43.97 357	12.641 190	6.80 39	49.385 171	43.20 211
	29	60.996 129	1.01 4	24.94 19	47.54 367	12.031 145	71	49.556	45.31 195
Sept.		61.125 87	0.97 23	25.13 <sub>10</sub>	51.21 368	12.976 100	7.51 <sub>100</sub>	49.688	47.26 176
	17*)	61.212	1.20	25.23 2	54.89 363	13.076	8.51	49.779 52	49.02
	27	61.260 10	1.67 66	18 25.25 7	50.52 349	13.130 12	9.75	49.832 18	50.57 132
Okt.	7	61.270 =	2.33 82	25.18	62.01	13.142 26	11.15	49.850 -	51.89 108
	17	61.247 51	3.15 91	25.03 21	65.31 301	13.116	12.66	49.836 43	52.97 84
	27	61.196	4.06	24.82 29	68.32 266	13.058 86	14.19	49.793 65	53.81 58
Nov.	6	61.123 73	5.03 97	24:53 25	70.98	12.972	15.08	49.728	54.39 34
	16	61.032	5.99 91	24.18	73.23 177	12.000	17.05	49.643	54.73 8
	26	60.930	6.90 83	23.70	15.00 124	12.140	10.20 98	1 49.544 108	54.81 16
Dez.	6	60.822	7.73 71	43.35 47	76.24 67	12.617	19.24 72	49.436 115	54.65 40
	16	60.712 107	8.44	22.88 47	76.91 8	12.486	19.96	49.321 118	54.25 62
	26	60.605 101	9.01 57	22.41 48	76.99 =	12.357 121	20.40 44	49.203	53.63 82
	36	60.504	9.42	21.93	76.48	12.236	20.52	49.088	52.81
Mitt	tl. Ort	58.472	17.23	21.63	44.29	10.097	24.32	47.269	33.36
	$\delta$ , $\operatorname{tg} \delta$	1.034	-0.265	2.614	+2.416	1.137	-0.54I	1.057	+0.341
	a'	+3.1	+20.0	+2.9	+20.0	+3.1	+20.0	+3.1	+20.0
	b'	-0.02	+ 0.09	+0.16	+ 0.06	-0.04	+ 0.06	+0.02	+ 0.04
	1231	55.72 35.65		F 13/4 3/4		1001	50 CH3155	M* 47	43 -

<sup>\*)</sup> Bei Stern 895), 896) und 898) lies Sept. 18.

THE P.										
Ta	g	899) p Cas	ssiopeiae	900) 27		902) ω Ι	Piscium	903) ε Tı	ıcanae	
100		AR.	Dekl	AR.	Dekl,	AR.	Dekl.	AR.	Dekl.	
194	47	23 <sup>h</sup> 51 <sup>m</sup>	+57° 12′	23 <sup>h</sup> 55 <sup>m</sup>	-3° 50′	23 <sup>h</sup> 56 <sup>m</sup>	+6° 34'	23 <sup>h</sup> 57 <sup>m</sup>	-65°. 51'	
Jan.	I	41.703 299	26.21 94	56.362	69.10	34.032 103	6.25	9.46 38	104.19 109	
	II	41.404	25.27	56.262	69.69 50	33.929	5.48	9.00	103.10	
	21	41.123	23.04 186	56.171	70.19 39	33.835 83	4.69 78	0.74 20	101.47	
	31	40.809	21.98	56.092 <sub>61</sub>	70.58	33.752 65	3.91 72	0.44	99.35	
Febr.	10	40.655 163	19.75 249	56.031 <sub>40</sub>	70.83	33.687 44	3.19 63	8.20 17	96.80 292	
	20	40.492 103	17.26 265	55.991 14	70.92	33.643 18	2.56	8.03 11	93.88 322	
März	2	40.389 36	14.01	55 977 =	70.82	33.625	2.06	7.92 2	90.00 244	
	12	40.353 38	11.01	55.994 52	70.51	33.640	1.74	7.89 -	0/.22 200	
	22	40.391 114	9.20	56.046 88	69.97 78	33.690 87	1.64 =	7.94 13	83.63 266	
April	I	40.505 189	0.03 217	56.134 128	69.19 103	33.777 128	1.78	8.07 21	79.97 364	
	m	40.694 260	4.66	56.262 167	68.16	33.905 168	2.20 70	8.28	76.33 356	
	21	40.054	2.00 136	56.429	00.00	34.073	2.90	0.57	14.11	
Mai	I	41.200	1.50 88	56.634	05.39	34.280 241	3.89 126	8.95	09.37	
	II	41.003 428	0.62 36	50.873 270	03.09 187	34.521 271	5.15	9.39 -	287	
	21	42.091 462	0.26 -	57.143 293	61.82	34.792 295	6.66	9.89 56	63.33 250	
	31	42.553 482	0.43 71	57.436 311	59.83 207	35.087 312	8.38	10.45 60	60.83 207	
Juni	10	43.035	1.14	57.747	57.70	35.399 220	10.20	11.05	58.70 161	
	20	43.523 482	2.36	50.000	55.67 306	35.719	12.30	11.67 64	57.15	
	30	44.000	4.06 213	50.30/ 212	53.61 198	30.040	14.39	12.31 63	56.06 56	
Juli	10	44.469 433	0.19 251	58.700 299	51.63 185	30.353 297	16.51 208	12.94 60	55.50 2	
	20	44.902 393	8.70 283	58.999 276	49.78 167	36.650 274	18.59 199	13.54 57	55.48 53	
	30	45.495 244	11.53 200	59.275 247	48.11	30.924 246	20.50	14.11 51	56.01 105	
Aug.	9	45.039 289	14.02 328	59.522 215	40.05	37.170 213	22.45	14.62	57.06	
	19	45.928 231	17.90 340	59.737 178	45.43 97	37.383 177	24.15 150	15.06 44	58.60 196	
	29	46.159 168	21.30 345	59.915 139	44.46 70	37.560 178	25.65 129	15.42 27	60.56 232	
Sept.	8	46.327 105	<sup>24.75</sup> <sub>28.18</sub> <sup>343</sup>	60.054 100	43.76	37.698 <sub>99</sub>	26.94 106	15.69 17	62.88	
	18	40.432	334	60.154 62	43.32 19	37.797 62	28.00	15.86 8	05.47 276	
OL4	27	1946.476 15	31.52 320	60.217 27	43.13 -	37.860 27	28.83	15.94 -	08.23	
Okt.	7	46.461 71	34.72 297	60.244 - 5	43.16	37.887 4	29.42 38	15.92	71.06 277	
	17	46.390 122	37.69 270	60.239 33	43.38 39	37.883	29.80 17	15.81 20	73.83 260	
	27	46.268 168	40.39 235	60.206	43.77 52	37.852 54	29.97 I	15.61 27	76.43 233	
Nov.	6	46.100	42.14 100	60.150	44.29 61	37.798	29.96	15.34	78.70	
	16	45.891 243	44.09 rea	00.070 87	44.90 66	37.726 87	29.77 33	. 15.01 28	80.71 150	
Dez.	26 6	45.648 269	46.19 101	59.989 97	45.56	37.639 <sub>96</sub>	29.44 46	14.03	82.21 <sub>98</sub> 83.19 41	
Den.		45.379 289	47.20 48	59.892 101	46.26 69	37.543 102	28.98 57	14.23 41		
	16	45.090 299	47.68	59.791 103	46.95 66	37.441 104	28.41 66	13.82 42	83.60 17	
	26	44-791 300	47.63 60	59.688	47.61 62	37.337 103	27.75 72	13.40 39 13.01	83.43 75	
10 P	36	44.491	47.03	59.587	48.23	37.234	27.03	13.01	82.68	
Mittl.	Ort	43.417	16.49	57.553	60.04	35.252	11.65	10.62	79.03	
sec δ,	tg ð	1.846	+1.552	1.002	-0.067	1.007	+0.115	2.446	-2.233	
α,		+3.0	+20.0	+3.1	+20.0	+3.1	+20.0	+3.1	+20.0	
<i>b</i> ,	b'	+0.10	+ 0.04	0.00	+ 0.02	+0.01	+ o.oI	—o.15	+ 0.01	

Na	1 12	Hev	Cephei	1mc2
TYW,	4.5	TICA.	Осрпст	4.52

m	115-11	Janua	r		Februa	ır	434	März			April	
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
92.1		+	in	FRE	+	in	Para III	+	in	10.15	+	in
146	$I_p o_m$	85° 58′	0.01 0.01	I <sub>p</sub> O <sub>m</sub>	85° 58′	10.01	I <sub>p</sub> o <sub>m</sub>	85° 58′	10.0 10.0	1h om	85° 58′	0.01 0.01
I	63.23	41.20	-10 - 8	53.84	40.82	+ 6 - 8	47.04	35.60	+8-5	43.85	26.66	+ 4 +10
2	62.93	41.29	- 7 -II	53-55	40.70	+9-4	46.86	35.35	+10 0	43.84	26.35	0 +11
3	62.63	41.37	- 2 -I2	53.27	40.58	+10 + 2	46.68	35.09	+10 + 5	43.84	26.05	-5+9
4	62.33	41.44	+ 3 -10	52.99	40.46	+9+7	46.50	34.84	+7+9	43.84	25.74	-8 + 6
5	62.02	41.50	+8-6	52.71	40.33	+ 5 +10	46.33	34.58	+ 2 +11	43.85	25.44	-9+2
6	61.72	41.56	+10 - I	52.43	40.19	+ 1 +12	46.17	34.31	- 2 +11	43.87	25.13	-9-2
7	61.41	41.61	+9+5	52.16	40.05	<b>-</b> 4 +10	46.01	34.04	-6+8	*)43.89	24.83	-6-5
8	61.11	41.66	+8+9	51.89	39.90	-8 + 8	45.86	33.77	-9 + 5	43.91	24.53	-3-6
9	60.80	41.70	+ 4 +12	51.62	39.74	-9+4	45.71	33.49	-9 + 1	43.94	24.23	+ 1 - 7
10	60.49	41.73	- I +I2	51.35	39.58	- 9 o	45.57	33.21	-8-3	43.98	23.93	+ 5 - 6
II	60.18	41.76	- 5 +10	51.09	39.41	-6-4	45.43	32.93	-5-5	44.02	23.63	+8-4
12	59.87	41.78	-8+6	50.83	39.24	-3-6	45-30	32.65	-1-7	44.07	23.33	+9-1
13	59.56	41.79	-9+2	50.57	39.07	+ 1 - 6	45.17	32.36	+3-6	44.12	23.03	+9+2
14	59.25	41.80	-8-2	50.32	38.89	+ 5 - 6	45.05	32.07	+6-5	44.18	22.74	+7+4
15	58.95	41.80	- 5 - 4	50.07	38.70	+7-4	44.93	31.78	+9-2	44.25	22.44	+4+6
16	58.64	41.79	-1-6	49.83	38.51	+9-1	44.82	31.49	+9 0	44.32	22.15	0+6
17	58.33	41.78	+2-6	49.59	38.32	+9+2	44.72	31.20	+8+3	44.39	21.86	- 4 + 5
18	58.02	41.76	+6-5	49.36	38.12	+7+4	44.62	30.91	+6+5	44.48	21.57	-8 + 2
19	57.72	41.73	+ 8 - 3	49.13	37.91	+5+6	44.53	30.61	+3+7	44.57	21.28	-10 - I
20	57.41	41.70	+9-1	48.90	37.70	+ 1 + 6	44.44	30.31	-2 + 7	44.66	21.00	-10 - <u>5</u>
21	57.10	41.66	+8+2	48.67	.37.48	-3+6	44.36	30.01	-6+4	44.76	20.71	-8 - 9
22	56.80	41.62	+7+4	48.45	37.26	-7 + 3	44.28	29.71	-9+1	44.86	20.43	- 4 -II
23	56.49	41.57	+4+6	48.23	37.04	-10 O	44.21	29.41	-II - 2	44.97	20.15	+ 1 -10
24	56.19	41.51	0+6	48.02	36.81	-11 - 4	44.15	29.11	-ro - 6	45.08	19.88	+6 - 8
25	55.89	41.45	- 5 + 5	47.81	36.58	-9-8	44.09	28.81	<b>-7-9</b>	45.20	19.61	+ 9 - 3
26	55-59	41.38	-8+2	47.61	36.34	- 5 -11	44.04	28.50	- 2 <b>-</b> 11	45.33	19.34	+11 + 2
27	55.30	41.30	-10 - 2	47.42	36.10	- 1 -11	44.00	28.20	+ 3 -10	45.46	19.07	+10+6
28	55.00	41.22	-rr - 6	47.23	35.85	+4-9	43.96	27.89	+7-7	45.60	18.81	+ 6 +10
29	54.71	41.13	- 8 -ro	47.04	35.60	+8-5	43.92	27.59	+10 - 2	45.74	18.55	+ 1 +11
30	54.42	41.03	- 4 -rr	SEL	30	Contract.	43.89	27.28	+10 + 3	45.89	18.30	- 3 +11
31	54.13	40.93	+ 1 -11	23.25	- 10 L	1-1111	43.87	26.97	+8+8	46.04	18.04	-7 + 8
32	53.84	40.82	+6-8	375		- 5-12-1	43.85	26.66	+ 4 +10			E-1725
	33.04	Sec. 73-21	1 51			3/4	1	20.00		1 - 0	2.0072	12-10-13

 $\alpha_{1947.0} = 1^h 1^m 6.28$ 

 $\delta_{1947.0} = +85^{\circ} 58' 26''28$ 

<sup>\*)</sup> Tag der doppelten unteren Kulmination: April 7.

Obere Kulmination Greenwich

Na)	43	Hev.	Cephei	4 <sup>m</sup> 52
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1		Mai	705 m		Juni	13 1104. 0		Juli		August		
Tag	1000			100		100			1.400			OF THE OWNER, OR ASSESSED.
	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
		+	in	211/6	+	in		+	in		+	in
A STATE	Ih om	85° 58′	0.01 0.01	I <sub>p</sub> O <sub>m</sub>	85° 58′	0.01 0.01	$I_p I_m$	85° 58′	0.01 0.01	Ih Im	85° 58′	0.01 0.01
I	46.04	18.04	-7 + 8	52.84	12.23	- 5 - 5	1.80	11.26	+5-5	s 11.17	15.38	+8+4
2	46.20	17.79	-9+4	53.11	12.11	-1 - 6	2.11	11.31	+8-3	11.45	15.59	+6+6
3	46.36	17.54	-9 0	53.38	12.01	+ 3 - 6	2.42	11.37	+9 0	11.72	15.81	+2+7
4	46.52	17.30	-7-4	53.66	11.91	+6-5	2.73	11.43	+9+2	12.00	16.03	-2+6
5	46.69	17.06	-4-6	53.94	11.81	+8-3	3.05	11.50	+7+4	12.27	16.26	-6+4
6	46.87	16.83	0 - 7	54.22	11.72	+9 0	3.36	11.58	+ 5 + 6	12.54	16.49	-9+I
7	47.05	16.60	+4-6	54.51	11.64	+8+2	3.67	11.66	+ 1 + 6	12.81	16.73	-11 - 3
8	47.23	16.37	+7-4	54.80	11.56	+6+5	3.98	11.75	-4 + 5	13.07	16.97	-10 <b>-</b> 8
9	47.42	16.15	+ 9 - 2	55.09	11.49	+ 3 + 6	4.29	11.84	-7 + 3	13.34	17.21	— 8 —п
10	47.62	15.93	+9+1	55.38	11.42	-1+6	4.60	11.93	-10 - 1	13.60	17.46	- 3 -12
II	47.82	15.71	+8 + 3	55.67	11.35	-6+5	4.91	12.03	-11 − 5	13.86	17.71	+ 2 -12
12	48.02	15.50	+5+5	55-97	11.30	-9 + 1	5.22	12.14	-10 - 9	14.12	17.97	+6-9
13	48.22	15.29	+ 1 + 6	56.26	11.25	-II - 3	5.53	12.25	- 6 -12	14.37	18.23	+10 - 4
14	48.43	15.08	-3+6	56.56	11.20	-11 - 7	5.84	12.37	- 1 -13	14.62	18.49	+11 + 2
15	48.64	14.88	-7 + 3	56.86	11.16	- 8 -10	6.15	12.50	+ 4 -11	14.86	18.76	+9+7
16	48.86	14.69	-10 o	57.16	11.12	- 4 -12	6.45	12.63	+8-6	15.11	19.03	+ 5 +10
17	49.09	14.50	-II - 4	57-47	11.09	+ 1 -11	6.75	12.76	+11 - 1	15.34	19.31	0 +11
18	49.31	14.31	-10 - 8	57-77	11.07	+7-8	7.06	12.90	+10 + 5	15.58	19.59	- 5 +10
19	49.54	14.13	- 6 -II	58.08	11.05	+10 - 3	7.36	13.05	+7+9	15.82	19.87	-9+7
20	49.78	13.96	- 1 -II	58.38	11.04	+11 + 2	7.66	13.20	+ 3 +12	16.05	20.16	-10 ± 3
21	50.02	13.79	+ 4 -10	58.69	11.03	+9+7	7.97	13.36	- 2 +11	16.28	20.45	-9 - 1
22	50.26	13.62	+8-6	59.00	11.02	+ 6 +11	8.26	13.52	-7+9	16.51	20.75	-6-4
23	50.50	13.46	+11 0	59.30	11.03	+ 1 +12	8.56	13.68	-9+5	16.73	21.05	- I - 6
24	50.75	13.30	+11 + 5	59.61	11.04	- 4 +11	8.86	13.85	-9 + 1	16.95	21.35	+3-6
25	51.00	13.15	+8+9	59.92	11.05	-8 + 8	9.15	14.03	-7 - 3	17.16	21.65	+6-4
26	51.25	13.00	+ 4 +12	60.23	11.07	-9+4	9.44	14.21	-4-5	17.37	21.96	+9-2
27	51.51	12.86	- I +I2	60.54	II.IO	- 8 o	9.74	14.39	0 - 6	17.58	22.27	+10 +
28	51.77	12.73	-6+9	60.86	11.13	-6-4	10.02	14.58	+4-5	17.79	22.59	+9+
29	52.03	12.60	-8+6	61.17	11.17	-2-6	10.31	14.78	+7-3	18.00	22.91	+7+6
30	52.30	12.47	- 9 + 2	61.48	11.21	+ 1 - 6	10.60	14.98	+ 9 - 1	18.20	23.22	+4+7
31	52.57	12.35	-8 - 2	61.80	11.26	+ 5 - 5	10.88	15.18	+9+2	18.39	23.55	0 +
32	52.84	12.23	-5-5	SHE		33.00	11.17	15.38	+8+4	18.59	23.87	- 5 + 5
135/	6.55-		10,175.50	01 35	Uk Ray	Various 18	35° 41. 1	A Party in	ST 15 125401	4.0 al = 2		3" 50m. 3

 $\alpha_{1947.0} = 1^{h} 1^{m} 6.28$ 

 $\delta_{1947.0} = +85^{\circ} 58' 26.28$ 

Na) A	13 Hev.	Cephei	4m52

	1227	Septemb	oer		Oktobe	er		Novemb	er	771	Dezemb	er
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
-		+-	in		+	in		+	in		+	in
	I <sup>h</sup> I <sup>m</sup>	85° 58′	10.01	ı <sup>h</sup> ı <sup>m</sup>	85°58′	0.01 0.01	ıh ım	85° 58′	0.01 0.01	Ih Im	85°58′	0.01 0.01
1	18.59	23.87	-5 + 5	22.50	34.73	-II - 4	22.24	46.97	+7-8	17.69	56.64	+10 + 5
2	18.78	24.20	-8 + 3	22.56	35.11	<b>-9-8</b>	22.15	47.34	+10 - 4	17.47	56.90	+7+9
3	18.96	24.53	-10 - I	22.62	35.50	- 6 -II	22.06	47.70	+11 + 1	17.25	57.16	+ 3 +11
4	19.14	24.87	-ro - 6	22.68	35.88	- 2 -12	21.96	48.06	+9+6	17.02	57.41	- 2 +II
5	19.31	25.21	-9-9	22.73	36.27	+ 3 -10	21.86	48.41	+ 6 +10	16.79	57.66	-7+9
6	19.48	25.55	- 5 -I2	22.77	36.66	+8-7	21.76	48.77	+ 1 +11	16.56	57.91	-9+5
7	19.65	25.90	0 -12	22.85	37.05 37.44	$+10 -2 \\ +10 +3$	21.65	49.12	- 4 +10	16.32	58.15	-9 0
8	19.82	26.24	+ 5 - 9	22.88	37.83	+8 + 7	21.54	49.48	-8 + 7	16.09	58.38	-7 - 3
9	19.98	26.59	+9-6	22.91	38.21	+ 3 +10	21.42	49.82	-10. + 3	15.84	58.61	-4-5
10	20.14	26.94	+10 - 1	22.94	38.60	- 2 +10	21.29	50.17	-9-1	15.60	58.84	0 - 6
II	20.29	27.29	+10 + 4	22.95	38.99	-6+9	21.17	50.51	-7-5	15.35	59.06	+4-5
12	20.44	27.65	+6+9	22.97	39.38	-9+6	21.03	50.85	-3-6	15.10	59.27	+8 - 3
13	20.59	28.00	+ 2 +11	22.98	39.76	-10 + 1	20.89	51.18	+ 1 - 6	14.84	59.48	+9-1
14	20.73	28.36	- 3 +10	22.98	40.15	-9-3	20.75	51.51	+ 5 - 5	14.58	59.68	+10 + 2
15	20.87	28.73	-7+8	22.98	40.53	-5-5	20.60	51.84	+ 8 - 3	14.32	59.87	+8+5
16	21.00	29.09	-IO + 4	22.97	40.92	- I - 7	20.45	52.17	+10 0	14.06	60.06	+ 5 + 6
17	21.13	29.46	-10 o	22.96	41.31	+3-6	20.29	52.50	+ 9 + 3	13.79	60.25	+2+7
18	21.26	29.83	-7-4	22.95	41.69	+7-4	20.14	52.82	+7+6	13.52	60.43	-3+6
19	21.38	30.19	-3-6	22.93	42.08	+9-1	19.97	53.14	+4+7	13.25	60.60	-7 + 4
20	21.49	30.56	+ 1 - 6	22.90	42.46	+10 + 2	19.80	53.45	0+7	12.98	60.77	-10 + 1
21	21.61	30.93	+ 5 - 5	22.87	42.84	+9+5	19.63	53.76	-4+6	12.70	60.93	<u>-11 - 4</u>
22	21.72	31.31	+ 8 - 3	22.84	43.23	+6+6	19.46	54.07	-8 + 3	12.42	61.09	-II - 8
23	21.82	31.68	+9 0	22.80	43.61	+2+7	19.27	54-37	-10 - I	12.14	61.24	- 8 -II
24	21.92	32.06	+9+3	22.75	43.98	-2+7	19.09	54.67	-II - 5	11.86	61.38	- 3 -r3
25	22.01	32.44	+8+5	22.70	44.36	-6 + 5	18.90	54.96	-9-9	11.57	61.52	+ 2 -12
26	22.10	32.82	+ 5 + 7	22.65	44-74	- 9 + 2	18.71	55-25	- 6 -r2	11.28	61.65	+7-9
27	22.19	33.20	+ 1 + 7	22.59	45.12	-II - 2	18.51		- I -I2	10.99	61.78	+10 - 3
28	22.27	33.58	-3+6	22.53	45.50	-10 - 6	18.31	55.82	+ 4 -10	10.70	61.90	+11 + 2
29	22.35		-7+4	22.47	45.87	- 8 -ro	18.11	56.10	+9-6	10.41	62.02	+9+7
30	22.43	34-34	-10 o	22.40	46.24	- 4 <b>-</b> 11	17.90	56.37	+11 - 1	10.11	62.12	+ 5 +11
31	22.50	34.73	-II - 4	22.32	46.61	+ 1 -11	17.69	56.64	+10 + 5	9.81	62.22	0 +12
32	850.53	200	The Stant	22.24		+7-8		-4-31-3	F. (2) S.	.9.51	62.32	- 5 +10
5000	64800	1975	3 425	-47.15	1 3000	1 3 3 3 1 3 1 3	13 4 3	1- 32 1	-5 7 FB	S. Carl	3 14	100

 $\alpha_{1947.0} = 1^h 1^m 6.28$ 

 $\delta_{1947.0} = +85^{\circ} 58' 26''28$ 

Nb) α Ursae minoris 2 <sup>m</sup> 12 V
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Tag		Janua	r		Februa	ır		März			April	
1ag	AR.	Dekl,	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
W-1		+	in	11-36	+	in	45		in		+	in
	1 <sup>h</sup> 46 <sup>m</sup>	89° 1′	0.01 0.01	1 <sup>h</sup> 45 <sup>m</sup>	89° 1′	0.01 0.01	1 <sup>h</sup> 45 <sup>m</sup>	89° o′	10.01	1 <sup>h</sup> 45 <sup>m</sup>	89° o'	0.01 0.01
I	54.65	5.32	-43 - 6	75.88	7.17	+21 - 9	44.04	63.60	+30 - 7	23.98	55.51	+19 +10
2	53.48	5.48	-31 -10	74.62	7.12	+36 - 5	43.09	63.39	+39 - 2	23.71	55.21	+ 1 +11
3	52.31	5.63	-11 -11	73-37	7.07	+41 0	42.16	63.18	:+39 + 3	23.46	54.91	-17 +10
4	51.12	5.77	+10 -11	72.12	7.01	+37 + 5	41.24	62.96	+30 + 7	23.24	54.61	-29 + 8
5	49.92	5.91	+29 - 7	70.87	6.94	+24 + 9	40.35	62.74	+12 +10	23.04	54.31	-36 +- 4
6	48.71	6.04	+40 - 3	69.64	6.87	+ 6 +12	39.47	62.52	- 6 +11	22.83	54.01	<del>-34</del> •
- 7	47.50	6.16	+42 + 3	68.41	6.79	-12 +11	38.61	62.29	-22 +IO	22.63	53.70	-25 - 4
8	46.28	6.28	+33 + 8	67.18	6.71	-27 + 9	37.77	62.06	-34 + 7	22.46	53.40	-11 - 6
9	45.05	6.39	+18 +11	65.97	6.62	-35 + 5	36.96	61.82	-35 + 3	22.32	53.09	+4-7
10	43.81	6.50	0 +12	64.76	6.52	-34 + 1	36.16	61.58	-31 - 1	22.20	52.79	+18 - 7
II	42.57	6.60	-18 +11	63.56	6.42	-26 - 2	35.38	61.33	-19 - 4	22.12	52.48	+29 - 5
12	41.32	6.69	-30 + 8	62.38	6.31	-14 - 5	34.62	61.08	-5-6	22.07	52.18	+35 - 3
13	40.07	6.78	-34 + 4	61.20	6.20	+2-7	33.88	60.83	+10 - 7	22.04	51.87	+35 0
14	38.81	6.86	-30 0	60.03	6.08	+17 - 7	33.16	60.57	+23 - 6	22.03	51.57	+29 + 3
15	37.55	6.94	-20 - 4	58.87	5.95	+28 - 5	32.46	60.31	+33 - 4	22.05	51.26	+17 + 5
16	36.28	7.00	-7-6	57.73	5.82	+34 - 3	31.78	60.05	+36 - 1	22.09	50.96	+1+6
17	35.01	7.06	+7-7	56.59	5.68	+35 0	31.12	59.78	+32 + 2	22.16	50.66	-16 + 6
18	33.74	7.11	+216	55-47	5.54	+31 + 2	30.49	59.52	+25 + 4	22.25	50.35	-31 + 4
19	32.47	7.16	+30 - 5	54.36	5.39	+20 + 5	29.88	59.25	+12 + 6	*)22.36	50.05	-41 + 1
20	31.19	7.20	+34 - 2	53.26	5.24	+.5 + 6	29.29	58.97	-5 + 7	22.50	49-75	-43 - 3
21	29.91	7.23	+33 + 1	52.18	5.08	-11 + 6	28.72	58.70	-22 + 6	22.66	49.45	-35 - 7
22	28.63	7.26	+27 + 3	51.11	4.91	-27 + 5	28.17	58.42	-35 + 3	22.85	49.15	-20 -10
23	27.35	7.28	+15 + 5	50.06	4.74	-37 + 2	27.65	58.14	-42 - 1	23.05	48.86	0 -11
24	26.07	7.29	-1+6	49.02	4.56	-43 - 2	27.15	57.85	-39 - 5	23.28	48.56	+21 - 9
25	24.79	7.30	-17 + 6	47.99	4.38	-38 - 6	26.67	57-57	-28 - 8	23.53	48.27	+35 - 5
26	23.51	7.30	-33 + 4	46.98	4.19	-25 -10	26.21	57.28	-13 -ro	23.80	47.98	+42 0
27	22.23	7.29	-42 0	45.98	4.00	- 7 -11	25.78	56.99	+ 8 -10	24.10	47.68	+39 + 5
28	20.96	7.28	<del>-43 - 4</del>	45.00	3.80	+14 -10	25.37	56.70	+26 - 8	24.42	47.39	+27 + 9
29	19.68	7.26	-35 - 8	44.04	3.60	+30 - 7	24.98	56.40	+38 - 4	24.76	47.11	+10 +11
30	18.41	7.24	-20 -11				24.62	56.11	+41 + 1	25.12	46.82	- 9 +11
31	17.14	7.21	+ 2 -11	5/153	20-60	9.03	24.28	55.81	+34 + 6	25.51	46.54	-25 + 9
32	15.88	7.17	+21 - 9	13000	1347200	237 33	23.98	55.51	+19 +10	P-100	14.73	
80 C	1000	CO 100	W. Museum		ALC: UNIT	551-15-17	Eq/46-i	Value See	autor and	C-125 (5)	Sec. 8	(E-12 1 E-16

$$\delta_{1947.0} = +89^{\circ} \text{ o' } 50\% \text{ y.}$$

 $<sup>\</sup>alpha_{1947.0} = 1^{h} 46^{m} 52^{s}47$ 

<sup>\*)</sup> Tag der doppelten unteren Kulmination: April 19.

Nb	) α	Ursae	minoris	2m12 var.	
110		Olsac	minoria	2 . 12 Val.	

	Nb) α Ursae minoris 2 <sup>m</sup> 12 var.											
Tag		Mai		37.33	Juni		1305	Juli			Augus	t
-46	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
	100 1 3	+	in	100	+	in		+	in		+	in
	1 <sup>h</sup> 45 <sup>m</sup>	89° 0′	0.01 0.01	rh 45 <sup>m</sup>	89° 0′	0.01 0.01	1h 46m	89° o'	0.01 0.01	1h 47m	89° o'	0,01 0.01
I	25.51	46.54	-25 + 9	47.22	39.32	-21 - 4	21.03	36.38	+.18 - 6	0.35	38.35	+33 + 3
2	25.91	46.26	-34 + 6	48.19	39.15	-7 - 6	22.28	36.36	+29 - 5	1.59	38.50	+24 + 5
3	26.34	45.98	-35 + 1	49.17	38.98	+8-7	23.53	36.35	+34 - 2	2.83	38.65	+10 + 6
4	26.80	45.70	-29 - 2	50.17	38.82	+21 - 6	24.78	36.35	+35 + 1	4.06	38.81	-6+7
5	27.27	45.43	-17 - 5	51.18	38.67	+30 - 4	26.04	36.35	+29 + 3	5.29	38.97	-22 + 6
1337		1115					10 34	11 3 1	1-9- 23		3 7,	1 19 3
6	27.77	45.16	-3-7	52.20	38.52	+35 - 2	27.30	36.35	+19 + 5	6.51	39.14	-36 + 3
7	28.28	44.90	+12 - 7	53.24	38.37	+34 + 1	28.57	36.36	+4+6	7.73	39.31	-43 - 1
8	28.82	44.63	+25 - 6	54.28	38.23	+27 + 4	29.84	36.38	-13 + 6	8.94	39.49	-43 - 6
9	29-37	44.37	+33 - 4	55.34	38.09	+14 + 5	31.11	36.40	-29 + 4	10.14	39.67	-34 - 9
10	29.95	44.11	+35 - 1	56.41	37.96	-3+6	32.38	36.42	-41 + 1	11.34	39.86	-17 -12
II	30.54	43.85	+31 + 2	57.50	37.83	-21 + 5	33.66	36.45	-46 - 3	12.53	40.05	+ 4 -12
12	31.16	43.60	+22 + 4	58.59	37.71	-35 + 3	34.93	36.49	-41 - 8	13.72	40.24	+22 -10
13	31.79	43.35	+7+6	59.70	37.59	-44 - I	36.21	36.53	-28 -11	14.90	40.44	+37 - 6
14	32.45	43.10	-10 + 6	60.8r	37.48	-45 - 5	37.49	36.58	- 8 -13	16.07	40.65	+41 0
15	33.12	42.86	-27 + 5	61.93	37-37	-36 - 9	38.77	36.63	+13 -12	17.23	40.86	+36 + 5
					1913		10000	ENGO		-0		
16	33.81	42.62	-39 + 2	63.06	37.27	-19 -11	40.05	36.69	+30 - 8	18.39	41.07	+21 + 9
17	34.52	42.38	-45 - 2	64.21	37.17	+ 2 -12	41.33	36.75	+41 - 3	19.53	41.29	+ 2 +12
18	35.25	42.15	-41 - 6	65.36	37.08	+23 -10	42.61	36.82	+42 + 3	20.67	41.51	-17 +11
19	36.00	41.92	-28 -10	66.52	37.00	-+38 - 5	43.89	36.90	+32 + 8	21.80	41.74	-31 + 9
20	36.76	41.70	- 9 -11	67.69	36.92	+43 0	45.17	36.98	+15 +11	22.92	41.97	-36 + 5
21	37.54	41.48	+13 -10	68.87	36.84	+40 + 6	46.45	37.07	- 6 +12	24.04	42.21	-33 0
22	38.34	41.26	+31-7	70.05	36.77	+26 +10	47.72	37.16	-23 +10	25.14	42.45	-23 - 3
23	39.16	41.05	+42 - 2	71.25	36.71	+ 7 +12	49.00	37.26	-33 + 7	26.23	42.69	-7-5
24	39.99	40.84	+43 + 3	72.45	36.65	-13 +12	50.27	37.36	-35 + 3	27.31	42.94	+9-6
25	40.84	40.63	+34 + 8	73.66	36.59	-27 + 9	51.54	37.46	-29 - I	28.38	43.19	+24 - 5
	2013	11-11-15		11360		1000	- 7 200			THE PERSON NAMED IN		
26	41.70	40.43	+17 +11	74.87	36.54	-34 + 5	52.81	37.57	-16-4	29.44	43.45	+34 - 3
27	42.58	40.23	- I +I2	76.09	36.50	-33 + 1	54.07	37.69	-1-6	30.49	43.71	+37 - 1
28	43.48	40.04	-19 +11	77.32	36.46	-24 - 3	55-34	37.81	+14 - 6	31.53	43.97	+36 + 2
29	44.39	39.85	-31+7	78.55	36.43	-II - 5	56.60	37.94	+27 - 5	32.56	44.24	+28 + 5 +16 + 6
30	45.32	39.67	-35 + 3	79.79	36.40	+4-6	57.85	38.07	+34 - 3	33.58	44.51	710 7- 0
31	46.26	39.49	-32 - 1	81.03	36.38	+18 - 6	59.10	38.21	+36 0	34.59	44.78	0+7
32	47.22	39.32	-21 - 4		1		60.35	38.35	+33 + 3	35.59	45.06	-16 + 6
-	10,000	1	N. Virginia	186	0.1	, , ,		129/100	-014-	100	33153	00000

 $\alpha_{1947.0} = 1^{h} 46^{m} 52.47$ 

 $\delta_{1947.0} = +89^{\circ} \text{ o' 50.114}$ 

Obere Kulmination Greenwich

$Nb) \alpha$	Ursae	minoris	2 <sup>m</sup> 12 var.
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m		Septemb	er		Oktobe	r		Novemb	er	E B	Dezemb	er
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
الله و	48 6	+	in		+	in	93-1-	+	in	15/4	+	in
	1 <sup>h</sup> 47 <sup>m</sup>	89° o'	0.01 0.01	1 <sup>h</sup> 47 <sup>m</sup>	89° 0′	0.01 0.01	1 h 47 m	89° 1′	0.01 0.01	1 <sup>h</sup> 47 <sup>m</sup>	89° 1′	0.01 0.01
<b>I</b> .	35.59	45.06	-16 + 6	59.08	54.89	-43 - 2	67.05	7.09	+23 -10	55.69	17.79	+42 + 3
2	36.57	45.34	-30 + 4	59.62	55.26	-39 - 6	66.97	7.47	+37 - 6	55.00	18.11	+31 + 8
3	37.54	45.63	-40 + I	60.14	55.63	-27 - 9	66.88	7.86	+42 — I	54.29	18.42	+14 +11
4	38.50	45.92	-42 - 4	60.65	56.00	-10 -11	66.76	8.24	+38 + 4	53.56	18.73	- 6 +II
5	39.44	46.21	<u>-36 - 8</u>	61.13	56.37	+10 -11	66.62	8.62	+25 + 9	52.82	19.03	-24 +10
6	40.38	46.51	-23 -11	61.60	56.74	<b>+28</b> - 9	66.46	9.00	+ 6 +11	52.05	19.33	-34 + 6
7	41.30	46.81	- 4 -I2	62.05	57.12	+39 - 4	66.28	9.37	-13 +11	51.27	19.62	-36 + 2
8	42.21	47.11	+16 -11	62.48	57-49	+41 + 1	66.07	9.75	-29 + 8	50.47	19.91	-30 - 2
9	43.11	47.42	+31 - 8	62.90	57.87	+32 + 6	65.85	10.12	-37 + 5	49.65	20.20	-18 - 5
10	43.99	47.73	+40 - 3	63.29	58.25	+16 + 9	65.60	10.49	-36 0	48.81	20.48	- I - 6
II	44.86	48.05	+36 + 3	63.67	58.63	- 3 +11	65.33	10.86	-27 - 3	47.95	20.76	+15 - 6
12	45.71	48.37	+24 + 8	64.03	59.01	-21 +10	65.04	11.23	-13 - 6	47.08	21.03	+28 - 5
13	46.55	48.69	+ 9 +10	64.37	59.39	-34 + 7	64.73	11.60	+4-7	46.19	21.30	+36 - 2
14	47.38	49.02	-10 +11	64.69	59.77	-38 + 3	64.40	11.97	+20 - 6	45.28	21.56	+37 0
15	48.19	49.34	-27 + 9	65.00	60.16	-34 — I	64.05	12.33	+31 - 4	44.36	21.82	+33 + 3
16	48.99	49.67	-37 + 6	65.28	60.54	-22 - 4	63.68	12.69	+38 - I	43.42	22.07	+23 + 5
17	49.77	50.00	-37 + 2	65.54	60.92	-5-6	63.29	13.05	+37 + 1	42.47	22.32	+9+7
18	50.54	50.33	-29 - 2	65.79 66.01	61.69	+11 - 7	62.88	13.41	+30 + 4	41.50	22.56	-9+7
19	51.29	50.67	-15 - 5	66.22	62.08	+27 5 +35 - 3	62.45	13.77	+17 + 6	40.51	22.80	-25 + 5
20	52.03	51.01	+ 2 - 6	66.40	62.46	+38 0	62.00	14.12	+2+7	39.51	23.03	-38 + 2
21	52.75	51.35	+18 - 6	66.57	62.85	+36 + 3	61.53	14.47	-16 + 7	38.50	23.26	-45 - 2
22	53.45	51.69	+31 - 4	66.71	63.24	+26 + 5	61.03	14.81	-31 + 4	37.47	23.48	-44 - 6
23	54.14	52.04	+37 - 2	66.84	63.63	+12 + 7	60.52	15.15	-41 + 1	36.43	23.70	-34 -10-
24	54.81	52.39	+38 + 1	66.94	64.01	-5+7	59.98	15.49	-45 - 3	35.37	23.91	-16 <b>-12</b>
25	55.47	52.74	+32 + 4	67.03	64.40	-21 + 6	59.43	15.83	-39 - 8	34.30	24.12	+ 5 -12
26	56.11	53.09	+20 + 6	67.09	64.79	-34 + 3	58.86	16.17	-25 -11	33.21	24.32	+25 -10
27	56.74		+6+7	67.13	65.17	-42 o	58.26		- 6 -I2	32.12	24.51	+39 - 6
28	57.35	53.81		67.16	65.56	-42 - 4	57.65		+15 -11	31.01	24.70	+43 0
29	57.95	54.17	-26 + 5	67.16	65.94	-33 - 8	57.01	-	+32 - 8	29.88	24.88	+37 + 6
30	58.52		The second second	67.15	66.33	-17 -11	56.36		+42 - 3	28.75	25.06	+23 +10
31	59.08	54.89	-43 - 2	67.11	66.71	+ 2 -11	55.69	17.79	+42 + 3	27.61	25.23	+ 3 +12
32	100	1000		67.05	67.09	+23 -10		1246		26.46	25.39	-17 +11
Elene.	-		1 01	1000	المراجل الم		FIVE E	TO SHE		14 TS	01 4	200

		tg 8									
+89° o' 40''	57.942	+57.934	+89°	1'	0"	58.270	+58.261	+89°	I' 20"	58.601	+58.592
50	58.106	+58.097	613		10	58.435	+58.426		- 30	58.768	+58.759

 $\alpha_{1947.0} = 1^h 46^{nf} 52.47$ 

 $\delta_{1947.0} = +89^{\circ} \text{ o' 50.114}$ 

Nc)	Grb	750	Cepheus	6m70	
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П. с.		Janua	ır	1	Febru	ar		März			April	
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
	4 5 5	+	in	-	+	in	200	+	in		+	in
	4 <sup>h</sup> 19 <sup>m</sup>	85° 24′	10.01	4 <sup>h</sup> 18 <sup>m</sup>	85° 24′	0.01 0.01	4 <sup>h</sup> 18 <sup>m</sup>	85° 24′	0.01 0.01	4 <sup>h</sup> 18 <sup>m</sup>	85° 24′	0.01 0.01
1	6.60	49.04	-12 + I	61.30	56.39	- 2 -II	54.29	58.53	+ 2 -10	46.88	55.39	+9+5
2	6.49	49.34	-11 - 4	61.07	56.55	+ 4 -10	54.03	58.52	+6-7	46.68	55.21	+7+9
3	6.38	49.64	-9 - 8	60.84	56.70	+8-6	53.77	58.50	+9-3	46.49	55.02	+ 3 +11
4	6.27	49.93	- 4 -10	60.61	56.85	+10 - 1	53.50	58.47	+10 + 2	46.29	54.83	-'1 +11
5	6.14	50.22	+ 1 -10	60.37	5.6.99	+10 + 4	53.24	58.44	+8+7	46.10	54.63	-4+8
6	6.02	50.50	+6-8	60.14	57.12	+8+9	52.99	58.40	+ 5 +10	45.92	54.43	- 6 4- 5
7	5.89	50.79	+10 - 4	59.90	57.25	+ 4 +11	52.73	58.36	+ 2 +11	45.74	54.22	-7 0
8	5.75	51.06	+II + 2	59.66	57-37	0 +11	52.47	58.31	- 2 +10	45.57	54.01	-6 - 3
9	5.61	51.34	+10 + 7	59.41	57.49	-3 + 9	52.22	58.25	-5+7	45.40	53.80	-3-6
10	5.46	51.61	+ 7 +10	59.17	57.60	-5+6	51.96	58.18	-7 + 3	45.23	53.58	- 1 - 8
II	5.31	51.88	+ 3 +12	58.92	57.71	-6 + 2	51.71	58.11	-6 - 1	45.06	53.36	+2-9
12	5.16	52.14	- 1 +11	58.67	57.81	-6-2	51.45	58.04	-5-5	44.90	53.13	+5-7
' 13	5.00	52.40	-4 + 8	58.42	57.90	-3-6	51.20	57.96	-2-7	44.75	52.91	+7-5
14	4.84	52.66	-644	58.17	57.99	-1 - 8	50.95	57.87	+ 1 - 9	44.59	52.67	+7-2
15	4.68	52.91	- 6 o	57.92	58.07	+ 2 - 8	50.71	57.78	+ 4 - 8	44.44	52.44	+6+2
16	4.51	53.15	-5-4	57.67	58.14	+ 5 - 7	50.46	57.68	+6-7	44.30	52.20	+4+5
17	4.34	53.39	-3-6	57.41	58.21	+6-5	50.22	57.58	+7-3	44.16	51.96	0 + 8
18	4.16	53.63	0 - 8	57.15	58.27	+7 - 3	49.98	57.47	+7 0	44.03	51.71	-3 + 8
19	3.98	53.86	+3 - 8	56.89	58.32	+7+1	49.74	57.36	+6+4	43.90	51.46	-7 + 7
20	3.79	54.08	+ 5 - 7	56.63	58.37	+ 5 + 5	49.51	57.24	+ 3 + 6	43.77	51.21	-10 + 4
21	3.60	54.30	+6-4	56.37	58.42	+ 2 + 7	49.28	57.11	-1 + 8	43.65	50.96	-11 - 1
22	3.41	54.52	+71	56.11	58.45	-2 + 8	49.05	56.98	-5 + 8	43.53	50.70	-9-5
23	3.21	54.74	+6+2	55.85	58.48	-6+7	48.81	56.84	-8+6	43.41	50.44	-6-9
24	3.01	54.94	+ 3 + 5	55.59	58.51	-9+4	48.59	56.70	-Io + 2	43.30	50.18	- I -IO
25	2.81	55.14	0+7	55-33	58.53	-11 0	48.36	56.56	-IO - 2	43.20	49.92	+4-9
26	2.60	55.34	-4 + 8	55.07	58.54	-10 - 4	48.14	56.40	-8-7	43.10	49.65	+8-6
27	2.39	55.53	-8 + 6	54.81	58.54	-8 - 8	47.92	56.25	- 4 -10	43.01	49.38	+10 - 2
28	2.18	55.71	-11 + 3	54-55	58.54	<b>–</b> 3 –10	47.71	56.09	0 -10	42.92	49.11	+10 + 3
. 29	1.96	55.89	-II - 2	54.29	58.53	+ 2 -10	47.50	55.92	+ 5 - 9	42.84	48.84	+8+8
30	1.74	56.06	-10 - 6	3,14	17.0		47.29	55.75	+8-5	42.76	48.56	+ 5 +11
31	1.52	56.23	- 6 -IO	6.7	C. 12 (2)		47.09	55-57	+10 0	42.69	48.29	+ 1 +11
32	1.30	56.39	- 2 -11	E TE B	1	E7-7-5	46.88	55-39	+9+5	TENT		
E 3-16	C	11 (25 5)	1000	3 YES	di unigo	3000	140-18	5000	1025.75	E 10 1	1330	100000

 $\alpha_{1947.0} = 4^{h} 18^{m} 59^{s}_{20}$   $\delta_{1947.0} = +85^{\circ} 24' 37''68$ 

Nc)	Grb	750	Cepheus	6 <sup>m</sup> 70
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	7 2 3 2	Mai			Juni	115 730 0		Juli	NA SE		Augus	t
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
1915		+	in	15 F	+	in	1.5.15	+	in	10	4	in
1	4 <sup>h</sup> 18 <sup>m</sup>	85° 24′	0.01 0.01	4 <sup>h</sup> 18 <sup>m</sup>	85° 24′	0.01 0.01	4 <sup>h</sup> 18 <sup>m</sup>	85° 24′	0.01 0.01	4 <sup>h</sup> 18 <sup>m</sup>	85° 24′	0.01 0.01
1	42.69	48.29	+ 1 +11	42.85	39.44	-6 0	47.33	32.07	0 - 8	55.26	27.70	+7-3
2	42.62	48.01	- 3 +10	42.93	39.16	-5-4	47-54	31.87	+3 - 8	55.55	27.62	+7 0
3	42.55	47.73	-6+6	43.02	38.89	-2-7	47.76	31.67	+5-7	55.85	27.56	+ 5 + 4
4	42.49	47-45	-7 + 2	43.12	38.61	0 - 8	47.98	31.48	+7-5	56.14	27.49	+ 3 + 6
5	42.44	47.17	- 6 <b>-</b> 2	43.21	38.34	+3-8	48.20	31.29	+7-2	56.44	27.43	- 1 + 8
6	42.39	46.89	-4 - 5	43.32	38.07	+ 5 - 7	48.42	31.11	+7+I	56.74	27.38	-5 + 8
7	42.34	46.61	-2 - 8	43.43	37.80	+7-4	48.65	30.93	+ 4 + 5	57.05	27.33	-9+5
8	42.30	46.32	+ 1 - 9	43.54	37.53	+7-1	48.88	30.75	+ 1 + 7	57.35	27.29	-II + 2
9	42.27	46.03	+ 4 - 8	43.66	37.27	+ 5 + 3	49.12	30.58	-3 + 8	57.65	27.25	-12 - 3
10	42.24	45.74	+ 6 - 6	43.78	37.00	+ 3 + 6	49.36	30.41	-7 + 7	57.96	27.21	-IO - 7
II	42.22	45-45	+7-3	43.90	36.74	-1 + 8	49-59	30.24	-11 + 4	58.27	27.18	- 7 -11
12	42.20	45.17	+7+I	44.03	36.48	-5 + 8	49.84	30.08	-12 o	58.57	27.15	- 2 -I2
13	42.18	44.88	+ 5 + 4	44.17	36.23	-9+6	50.08	29.92	-12 - 5	58.88	27.13	+ 4 -10
14	42.17	44.59	+2+7	44.31	35.97	-12 + 3	50.33	29.76	-9-9	59.19	27.11	+8-6
15	42.17	44.30	-2 + 8	44.45	35.72	-12 - 2	50.58	29.61	- 4 -II	59.50	27.10	+10 - 1
16	42.17	44.02	-6 + 7	44.60	35-47	-10 - 7	50.84	29.46	+ 1 -11	59.81	27.10	+10 + 5
17	42.17	43.73	-10 + 5	44.76	35.22	<u>-</u> 6 —10	51.10	29.32	+ 6 - 8	60.13	27.10	+7+9
18	42.18	43.44	-11 + 1	44.92	34.98	- I -II	51.36	29.18	+10 - 4	60.44	27.10	+ +12
19	42.20	43.15	-11 - 4	45.08	34.74	+ 4 -10	51.63	29.05	+11 + 2	60.75	27.11	- 1 +11
20	42.22	42.86	-8-8	45.24	34.50	+8-6	51.89	28.92	+9+7	61.06	27.12	- +9
21	42.25	42.57	- 4 -10	45.41	34.26	+11 - 1	52.16	28.79	+ 6 +11	61.38	27.13	- + 5
22	42.28	42.28	+ 2 -11	45.59	34.03	+11 + 5	52.43	28.67	· · 2 +12	61.69	27.15	-6 o
23	42.31	41.99	+7-8	45.76	33.80	+8+9	52.70	28.55	- 2 +11	62.01	27.18	- 5 <sup>-</sup> - 4
24	42.35	41.70	+10 - 4	45.95	33.57	+ 5 +12	52.98	28.44	-5 + 8	62.32	27.21	-2-6
25	42.40	41.42	+11 + 2	46.13	33.35	0 +12	53.25	28.33	-6 + 3	62.64	27.24	+ 1 - 8
26	42.45	41.13	+10 + 7	46.32	33.13	-3 + 9	53-53	28.23	-5-r	62.96	27.28	+4 - 8
27	*)42.50	40.85	+7+10	46.52	32.91	-5+6	53.82	28.13	-4-5	63.28	27-33	+7-6
28	42.56	40.56	+ 3 +11	46.72	32.70	-6 + 1	54.10	28.04	- I - 7	63.60	27.38	+8-4
29	42.63	40.28	- 1 +11	46.92	32.49	-5-3	54.39	27.95	+2-8	63.92	27.43	+8 0
30	42.70	40.00	-5 + 8	47.12	32.28	-3-6	54.68	27.86	+ 5 - 7	64.24	27.49	+7+3
31	42.77	39.72	-6+4	47.33	32.07	0 - 8	54.97	27.78	+7-5	64.55	27.55	+4+6
32	42.85	39.44	-6 0	1410	- Hobbis	1. N. S.	55.26	27.70	+7-3			+ 1 + 8
	V == 1	1500	2 1 2 1 2 2	CONSTRUCTION OF THE PARTY OF TH	-52-1 C	2 2 - 2 -	THE REAL PROPERTY.	1000	The state of the	702897	100 11/1	210 37572

$$\alpha_{1947.0} = 4^{\text{h}} 18^{\text{m}} 59^{\text{s}}_{20}$$

$$\alpha_{1947.0} = 4^{\text{h}} \text{ 18}^{\text{m}} \text{ 59.20}$$
  $\delta_{1947.0} = +85^{\circ} \text{ 24'} \text{ 37.468}$ 

<sup>\*)</sup> Tag der doppelten unteren Kulmination: Mai 27.

Nc)	Grb	750 (	Cepheus	6 <sup>m</sup> 70	
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4-3	Wey arb 750 deputeus 0.70											
Tag		Septeml	ber	1	Oktob	er		Novemb	er	424	Dezemb	er
746	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	C Glieder
-	5.70	+	in	397	+	in	2-4	+	in	1-230	+	in
June 1	4h 19m	85° 24′	0.01 0.01	4 <sup>h</sup> 19 <sup>m</sup>	85° 24′	0.01 0.01	4 <sup>h</sup> 19 <sup>m</sup>	85° 24′	0.01 0.01	4 <sup>h</sup> 19 <sup>m</sup>	85°24′	0.01 0.01
1	4.87	27.62	+ 1 + 8	14.04	31.74	-9+5	21.62	39.73	- 6 -IO	25.62	50.06	+10 - 4
2	5.19	27.69	-3 + 8	14.32	31.94	-11 + 1	21.81	40.03	- I -II	25.67	50.41	+10 + 2
3	5.51	27.77	-7 + 6	14.60	32.15	-11 - 4	22.00	40.34	+ 4 -10	25.72	50.76	+9+7
4	5.82	27.85	<b>→10 + 3</b>	14.88	32.37	<b>-</b> 9 <b>-</b> 8	22.18	40.66	+8-7	25.76	51.11	+ 6 +10
5	6.14	27.94	-12 - 1	15.16	32.58	- 5 -II	22.36	40.97	+10 - 2	25.80	51.46	+ 1 +12
6	6.45	28.03	-11 - 5	15.43	32.80	0 —11	22.54	41.29	+10 + 3	25.83	51.81	- 2 +10
7	6.77	28.13	-8 - 9	15.70	33.03	+ 5 - 9	22.71	41.61	+7+8	25.86	52.16	-5+7
8	7.09	28.23	- 3 -11	15.97	33.25	+8-5	22.88	41.93	+ 4 +11	25.89	52.51	-7 + 3
9	7.40	28.33	+ 2 -11	16.24	33.48	+9 0	23.05	42.25	0 +11	25.91	52.85	-6 - 1
10	7.71	28.44	+ 6 - 8	16.51	33.71	+9+6	23.21	42.58	-4+9	25.92	53.20	- 4 - 5
ÌΙ	8.03	28.55	+9-3	16.77	33.95	+6+9	23.37	42.90	-6+6	25.93	53-54	- 1 - 8
12	8.34	28.67	+9+3	17.03	34.19	+ 2 +11	23.52	43.23	-7 + 1	25.93	53.89	+2 - 8
13	8.65	28.79	+8+7	17.29	34.44	- 2 +11	23.67	43.56	-6 - 3	25.93	54.23	+5-7
14	8.96	28.92	+ 4 +11	17.54	34.69	-5 + 8	23.81	43.89	-3-6	25.92	54-57	+7-5
15	9.27	29.05	+ 1 +11	17.79	34.94	-7 + 4	23.95	44.22	· · o — 8	25.91	54.91	+8-2
16	9.57	29.19	- 3 +10	18.04	35.20	-7-I	24.00	44.56	+ 3 - 8	25.89	55.25	+7+1
17	9.88	29.33	-6+7	18.29	35.46	- 5 - 5-	24.22	44.90	+6-7	25.87	55-59	+ 5 + 4
18	10.19	29.47	-7 + 2	18.54	35.72	-2-7	24.35	45.24	+8-4	25.84	55.92	+2+7
19	10.50	29.62	-6-2	18.78	35.99	+ 1 - 9	24.47	45.57	+ 8 - I	25.81	56.26	-2 + 8
20	10.80	29.78	-3-6	19.02	36.25	+ 5 - 8	24.59	45.91	+7+3	25.77	56.59	-6+8
21	11.10	29.93	0 - 8	19.25	36.52	+7-6	24.70	46.26	+ 4 + 6	25.73	56.92	-10 + 5
22	11.40	30.10	+3 - 8	19.48	36.80	+8 - 3	24.81	46.60	+ 1 + 8	25.68	57.25	-12 + 1
23	11.70	30.26	+6-7	19.71	37.08	+8 + 1	24.91	46.94	-3 + 8	25.62	57-57	-12 - 3
24	12.00	30.43	+8-5	19.94	37.36	+6+4	25.01	47.29	-7 + 7	25.56	57.90	-10 - 8
25	12.30	30.61	+8-1	20.16	37.65	+ 3 + 7	25.10	47.63	-10 + 4	25.50	58.22	- 6 -11
26	12.59	30.79	+7+2	20.38	37.94	- I + 8	{ 25.19 { 25.27	47.98 48.33	$-12 0 \\ -11 - 5$	25.43	58.54	— I —I2
27	12.88	30.97	+ 5 + 5	20.59	38.23	-4 + 8	25-35	48.67	-8 - 9	25.36	58.86	+ 4 -10
28	13.17	31.16	+2+7	20.80	38.52	-8+6	25.43	49.02	- 4 -II	25.28	59.18	+8-6
29	13.47	31.35	-2 + 8	21.01	38.82	—II + 2	25.50	49-37	+ 2 -11	25.20	59.49	+10 - 1
30	13.76	31.54	-6+7	21.22	39.12	-τ1 − 2	25.56	49.72	+6-8	25.11	59.80	+10 + 5
31	14.04	31.74	-9+5	21.42	39.42	-ro - 6	25.62	50.06	+10 - 4	25.02	60.10	+8+9
32	15 5		Mary State	21.62	39.73	- 6 -IO		and the	Yel seld	24.92	60.41	+ 3 +12
3				390000	33/200		200	180000		1000	0 1 400	

Œ1047.0 = 4h 18m 59.20

 $\delta_{1947.0} = +85^{\circ} 24' 37.68$ 

Nd) 51 Hev. Cephei 5"	-20
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the contract of	E State		Mr. Park	1-1	(va) 5	1 1101. 00	ilev. Cepher 5.20					
Tag	12.44	Janua	r	34.5	Februa	r	- V 2 9	März	13 36	77	April	K-ANDE
	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
- 101	14-150	+	in	1155	+	in	11/10	+	in	a Elegis	+	in
	7 <sup>h</sup> 16 <sup>m</sup>	87°7'	0.01 0.01	7 <sup>h</sup> 16 <sup>m</sup>	87°8′	0.01 0.01	7 <sup>h</sup> 16 <sup>m</sup>	87°8′	0.01 0.01	7 <sup>h</sup> 16 <sup>m</sup>	87°8′	0.01 0.01
436		-"-0		.6	-"60		5 40 6T			20.70	TH"00	
I	45.3I	55.38	- 7 +II	46.52 46.42	5.69	-11 - 7	40.61	13.27	-7-9	29.19	17.38	+15 - 2 +16 + 2
2	45.49	55.69	-13 + 9 -16 + 5	46.30	6.32	- 4 -10 + 4 -10	39.99	13.48	+ 1 - 10 + 8 - 9	28.38	17.42	+10 + 2 $+13 + 7$
3	45.65	56.32	-10 1 5 -17 0	46.18	6.62	+11 - 8	39.67	13.90	+8-9	27.98	17.48	+8+9
5	45.96	56.63	-14 - 5	46.05	6.93	+16 - 3	39.34	14.10	+16 0	27.58	17.50	+2+9
(13mm)	45.90	1 - 1	.4 3	40.05	0.93	120 3		14.10	110 0	27.30	17.30	1 4 1 9
6	46.10	56.95	-7-9	45.91	7.23	+17 + 1	39.01	14.29	+15 + 4	27.17	17.51	-3 + 8
7	46.23	57.27	0 -10	45.76	7.53	+15 + 6	38.68	14.48	+12 + 8	26.77	17.52	-7 + 5
8	46.35	57.59	+8-9	45.60	7.83	+10 + 9	38.34	14.66	+6+9	26.37	17.52	-10 + I
9	46.46	57.92	+15 - 6	45.44	8.12	+4+9	37.99	14.84	0+9	25.96	17.51	-10 - 3
10	{46.57 46.66	58.24 58.57	+18 - 1) +17 + 3)	45.27	8.41	-1 + 8	37.64	15.01	-5+7	25.56	17.50	-8-6
II	46.75	58.90	+14 + 7	45.09	8.70	-6 + 5	37.29	15.18	-8 + 3	25.16	17.48	<b>-</b> 5 <b>-</b> 9
12	46.83	59.22	+8+9	44.90	8.99	-9 + 2	36.93	15.34	-10 0	24.76	17.46	-1 - 9
13	46.90	59.55	+2+9	44.70	9.27	-9 - 2	36.57	15.50	-9-4	24.36	17.43	+3-8
14	46.96	59.87	-3+7	44.50	9-55	-8-6	36.21	15.65	-7-7	23.96	17.40	+7-6
15	47.01	60.20	-7 + 4	44.29	9.82	-5 - 8	35.84	15.80	-3 - 9	23.56	17.36	+ 9 - 2
16	47.05	60.53	- g o	44.07	10.10	<u>-1-9</u>	35.47	15.94	+ 1 - 9	23.17	17.31	+9+2
	47.05	60.86		44.07	10.36	+3-8	35.10	16.07	+5-7	22.78	17.26	+7+6
17	47.11	61.18	$\begin{vmatrix} -9 - 4 \\ -7 - 7 \end{vmatrix}$	43.61	10.63	+6-7	34.72	16.20	+ 8 - 5	22.78	17.20	+ 3 + 9
19	47.12	61.51	-4-8	43.37	10.89	+ 9 - 3	34.72	16.32	+10 - 1	22.00	17.14	- 3 +10
20	47.13	61.84	0-9	43.12	11.15	+9+1	33.96	16.44	+9+3	21.61	17.07	- 8 +10
	7,3			10-11-3			1535	V 19:00	THE REAL PROPERTY.			100 May
21	47.13	62.17	+4-8	42.87	11.40	+8+5	33.57	16.55	+ 6 + 7	21.22	17.00	-13 + 7
22	47.12	62.49	+7-5	42.61	11.65	+4+8	33.18	16.66	+ 1 +10	20.84	16.92	-16 + 2
23	47.10	62.82	+9-2	42.35	11.89	- I +IO	32.79	16.76	- 5 +10	20.46	16.83	-14 - 3
24	47.07	63.14	+9+2	42.07	12.13	- 7 +10	32.40	16.85	-10 + 8	20.09	16.74	-IO - 7
25	47.03	63.46	+ 6 + 6	41.79	12.37	-13 + 8	32.00	16.94	-14 + 5	19.72	16.64	- 4 -10
26	46.99	63.79	+2+9	41.51	12.60	-16 + 4	31.61	17.02	-16 o	19.35	16.54	+ 4 -10
27	46.93	64.11	- 4 +10	41.22	12.83	-16 <b>-</b> 1	31.21	17.10	-14-5	18.98	16.43	+10 - 8
28	46.87	64.42	-10 +10	40.92	13.05	-13 - 6	30.81	17.17	-8-8	18.62	16.32	+15 - 4
29	46.79	64.74	-15 + 7	40.61	13.27	-7-9	30.41	17.23	- 2 -10	18.26	16.20	+16 0
30	46.71	65.06	-17 + 2				30.01	17.28	+ 6 -10	17.91	16.07	+15 + 5
21	46.62	65.38	<b>-16</b> - 3	1000	10	LEVE T	29.60	T7 22	+12 - 7	17.56	15.94	+10 + 8
31 32	46.52	65.69	A STATE OF THE PARTY OF THE PAR	198.55	100		29.19	17.33			1 20.94	10
32	1 40.32	1 03.09	1, /	000	-	1000	1 29.19	1 -1.30	1 123 2		-	

$$\alpha_{1947,0} = 7^h \ 16^m \ 26.15$$

$$\delta_{1947.0} = +87^{\circ} 7' 54.48$$

Nd)	51	Hev.	Cephei	5m26
	J-	~~~	Cobner	3.20

7	952 B.A.	MALES I				1 Hev. Of							
Tag		Mai	STATE OF THE STATE	31 47	Juni	2-15-2	5	Juli	50 - F	90.00	Augus	t	
	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	
31.4. 3	. 4	4	in	74	+	in	17597	+	in	1 1955	+	in	
233	7 <sup>h</sup> 16 <sup>m</sup>	87° 8′	0.01 0.01	7 <sup>h</sup> 16 <sup>m</sup>	87° 8′	0.01 0.01	7 <sup>h</sup> 16 <sup>m</sup>	87° 7′	0.01 0.01	7 <sup>h</sup> 16 <sup>m</sup>	87° 7′	10.01	
ı	17.56	15.94	+10 + 8	9.19	9.66	-8+4	7.09	60.88	-7-6	11.77	51.33	+6-7	
2	17.21	15.81	+ 5 +10	9.19	9.40	-9 0	7.14	60.56	-4 - 8	12.03	51.04	+9-4	
3	16.86	15.67	-1+9	8.85	9.14	-9-4	7.19	60.25	0-9	12.29	50.75	+10 - 1	
4	16.52	15.52	-6+6	8.69	8.87	-7-7	7.25	59.94	+4-8	12.56	50.46	+-9 + 3	
5	16.19	15.37	-9+2	8.53	8.60	-3 - 8	7.31	59.63	+7-6	12.84	50.17	+ 5 + 7	
6	15.86	T 7 00	-10 - 1	8 40	8 00		H 00	CO OT		70.70	40.00		
		15.22	-9 - 5	8.39	8.33	$  \circ - 9   + 4 - 8  $	7·39 7·47	59.31	+9-3 +9+1	13.13	49.89	0 +10	
7 8	15.53 15.21	14.89	-6-8	8.12	7.77	+7-5	7.55	58.68	+7+5	13.42	49.61	-12 + 9	
5700	14.90	14.72	-3-9	8.00	7.49	+9-2	7.65	58.37	+3+8	14.02	49.05	-12 + 9 -16 + 6	
9 10	14.59	14.55	+2-9	7.88	7.21	+9+3	7.75	58.05	-2+11	14.33	48.78	-18 + 1	
	500			7.00	4/500	5 15125	3,411,6	15 -02			37-17		
II	14.28	14.37	+5-7	7.77	6.92	+6+7	*) 7.86	57.74	- 9 +11	14.64	48.50	-17 - 4	
12	13.98	14.19	+8-4	7.67	6.63	+ 1 +10	7.97	57.42	-15 + 8	14.96	48.23	-12 - 8	
13	13.69	14.00	+9 0	7.57	6.34	- 5 +11	8.10	57.11	-18 + 4	15.29	47.97	- 5 -10	
14	13.40	13.81	+8+4	7.48	6.05	-11 +10	8.23	56.80	-18 - I	15.62	47.70	+ 4 -10	
15	13.11	13.61	+4+8	7.40	5.76	-16 + 7	8.36	56.48	-15 - 6	15.95	47.44	+11 - 7	
16	12.83	13.41	- I +IO	7.33	5.47	-18 + 2	8.51	56.17	-8-9	16.30	47.18	+15 - 3	
17	12.56	13.20	- 7 +11	7.26	5.17	-16 - 4	8.66	55.87	0 -11	16.65	46.92	+16 + 2	
18	12.29	12.99	-13 + 8	7.20	4.87	-11 - 8	8.82	55.56	+ 8 - 9	17.00	46.67	+14 + 7	
19	12.03	12.78	-16 + 4	7.15	4.57	- 3 -II	8.99	55.25	+14 - 5	17.36	46.42	+9+9	
20	11.78	12.56	-16 - 1	7.10	4.27	+ 5 -10	9.16	54.94	+17 - 1	17.72	46.16	+ 3 +10	
21	11.53	12.34	-13 - 6	7.07	3.96	+12 - 8	9.34	54.63	+16 + 4	18.09	45.92	-3 + 8	
22	11.28	12.11	-7-9	7.04	3.66	+17 - 4	9.52	54.32	+13 + 8	18.46	45.67	-7 + 4	
23	11.04	11.88	+ 1 -11	7.01	3.36	+18 + 1	9.72	54.01	+7+9	18.84	45.43	-8 o	
24	10.81	11.65	+ 8 -ro	7.00	3.05	+16 + 6	9.92	53.71	+1+9	19.22	45.19	-8 - 4	
25	10.59	11.41	+14 - 6	6.99	2.74	+11 + 9	10.12	53.40	-4+6	19.61	44.96	-5-7	
26	10.37	11.17	+18 - 1	6.99	2.43	+4+9	10.34	53.10	-7 + 3	20.01	44.73	-2-9	
27	10.16	10.93	+17 + 3	6.99	2.12	-2 + 8	10.56	52.80	-8-2	20.41	44.50	+2-9	
28	9.95	10.68	+13 + 7	7.01	1.81	-6 + 5	10.79	52.51	-7-5	20.81	44.28	+ 6 - 8	
29	9.75	10.43	+8+9	7.03	1.50	-8 + 1	11.03	52.21	-5-8	21.22	44.06	+9-5	
30	9.56	10.18	+ 1 + 9	7.06	1.19	- 9 - 3	11.27	51.91	- I - 9	21.63	43.84	+10 - 2	
31	9.37	9.92	-4+7	7.09	0.88	-7-6	11.51	51.62	+ 3 - 9	22.05	43.63	+10 + 2	
32	9.19	9.66	-8 + 4	1200		1	11.77	51.33	+6-7	22.47	43.41	+7+6	
1000	100 FW 1	The Popular	The state of the s	0.00171	V (27)	Sec. 202.00	Sale Bill	TOWN.	G2150505	1 33	3000	1300 a 15	

 $\alpha_{1947.0} = 7^{h} 16^{m} 26.15$ 

 $\delta_{1947.0} = +87^{\circ} 7' 54.48$ 

<sup>\*)</sup> Tag der doppelten unteren Kulmination: Juli 11.

Nd) 51 Hev. Cep	hei 5 <sup>m</sup> 26
-----------------	-----------------------

Na) 51 Hev. Cepnel 5720												4-12-15-
Tag		Septem	ber		Oktob	er		Novemb	oer		Dezeml	oer
1ag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
in the same	The	+	in	7 -1 3	+ +	in		+	in	19	+	in
	7 <sup>h</sup> 16 <sup>m</sup>	87° 7′	10.01	7 <sup>h</sup> 16 <sup>m</sup>	87° 7′	0.01 0.01	7 <sup>h</sup> 16 <sup>m</sup>	87° 7′	0.01 0.01	7 <sup>h</sup> 17 <sup>m</sup>	87° 7′	0.01 0.01
I	22.47	43.41	+7+6	36.73	38.85	- 6 +10	52.91	38.43	-16 - 3	6.94	42.56	0 -11
2	22.89	43.21	+3+9	37.24	38.77	-12 + 8	53.42	38.50	-11 - 8	7.34	42.77	+8-9
3	23.32	43.00	- 3 +10	37.76	38.68	-16 + 4	53.93	38.57	- 4 -IO	7.73	42.98	+14 - 5
4	23.75	42.80	-9+9	38.28	38.61	-17 0	54-44	38.64	+ 3 -10	8.12	43.20	+17 - 1
5	24.19	42.60	-14 + 7	38.79	38.54	-14 - 5	54.95	38.72	+10 - 8	8.50	43.42	+16 + 4
6	24.63	42.41	-17 + 3	39.31	38.47	  -9-9	55.45	38.81	+15 - 4	8.88	43.65	+12 + 8
7	25.08	42.22	-17 - 2	39.84	38.41	- 210	55.95	38.90	+16 + 1	9.25	43.88	+ 6 +10
8	25.53	42.03	-14 - 6	40.36	38.35	+5-9	56.45	39.00	+14 + 6	9.62	44.11	0+9
9	25.98	41.85	-7-9	40.88	38.30	+11 - 6	56.95	39.10	+9+9	9.98	44.35	-5+6
10	26.44	41.67	0 -10	41.40	38.25	+15 - 1	57.44	39.20	+ 3 +10	10.33	44.59	-8 + 3
11	26.90	41.49	+8 - 8	41.93	38.20	+15 + 3	57.93	39.32	-3+9	10.67	44.84	- 9 - 2
12	27.37	41.32	+13 - 4	42.45	38.17	+12 + 8	58.42	39.43	-7+5	11.01	45.09	-8 - 5
13	27.83	41.15	+15 0	42.98	38.13	+ 7 10	58.90	39.55	-9+1	11.34	45.34	-4 - 8
14	28.31	40.99	+14 + 5	43.50	38.10	+ 1 +10	59.38	39.68	-9 - 3	11.67	45.60	0-9
15	28.78	40.83	+10 + 9	44.03	38.08	-5 + 7	59.86	39.81	-7-7	11.99	45.86	+4-9
16	29.26	40.68	+ 5 +10	44.56	38.06	-8+4	60.33	39-95	-3-9	12.30	46.13	+7-7
17	29.74	40.53	-1+9	45.09	38.05	-10 - I	60.80	40.09	+ r -ro	12.61	46.40	+10 - 4
18	30.22	40.38	-6+6	45.62	38.04	-9-5	61.27	40.23	+ 5 - 9	12.91	46.67	+10 0
19	30.71	40.24	-9+2	46.15	38.04	-6 - 8	61.73	40.38	+9-6	13.20	46.94	+9+4
20	31.20	40.10	- 9 - 2	46.67	38.04	- I - 9	62.19	40.54	+10 - 2	13.48	47.22	+ 5 + 8
21	31.69	39-97	-7-6	47.20	38.04	+3-9	62.64	40.70	+10 + 2	13.76	47.50	0 +10
22	32.18	39.84	-4-9	47.72	38.05	+7 - 8	63.09	40.86	+8+6	14.03	47.78	- 7 +II
23	32.68	39.71	+ 1 -10	48.25	38.07	+10 - 5	63.54	41.03	+ 3 + 9	14.28	48.07	-13 + 9
24	33.18	39.59	+ 5 - 9	48.77	38.09	+11 - 1	63.98	41.21	- 2 +11	14.53	48.36	-17 + 6
25	33.68	39.47	+8-7	49.29	38.11	+10 + 3	64.42	41.39	- 9 +10	14.78	48.65	-19 + 1
26	34.18	39.36	+10 - 3	49.81	38.14	+7+7	64.85	41.57	-14 + 8	15.01	48.95	-17 - 4
27	34.69	39.25	+10 + 1	50.33	38.18	+1+9	65.28	41.76	-17 + 3	15.24	49.24	-11 - 9
28	35.20	39.14	+9+5	50.85	38.22	- 4 +10	65.70	41.95	-17 - 2	15.46	49.54	- 4 -11
29	35.70	39.04	+ 5 + 8	51.37	38.27	-10 + 9	66.12	42.15	-14 - 6	15.67	49.84	+ 5 -10
30	36.22	38.94	0 +10	51.89	38.32	-15 + 6	66.53	42.35	-7-10	15.87	50.15	+12 - 7
31	36.73	38.85	- 6 +10	52.40	38.37	-17 + 1	66.94	42.56	0 –11	16.07	50.45	+16 - 3
32	SHE!		310515	52.91	38.43	-16 - 3	No and	1 - 1	<b>医类型</b>	16.26	50.76	+17 + 2
	100 m		0.00		2	- BOTO AND COM			ASSESSED TO THE PARTY OF THE PA	- 1 PARTIE	7 3 3 4 V	A CONTRACTOR

$$\alpha_{1947.0} = 7^h \ 16^m \ 26.15$$

$$\delta_{1947.0} = +87^{\circ} 7' 54.748$$

Obere Kulmination Greenwich

Ne) I	Hev.	Draconis	4 <sup>m</sup> 58
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		Janua	r		Februa	ır	70	März			April	
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
1000		4	in	-7-01	+	in	18:02	4	in	2000	+	in
	9 <sup>h</sup> 29 <sup>m</sup>	81° 33′	10.0 10.0	9 <sup>h</sup> 29 <sup>m</sup>	81°_33′	0.01 0.01	9 <sup>b</sup> 29 <sup>m</sup>	81° 33′	0.01 0.01	9 <sup>h</sup> 29 <sup>m</sup>	81° 34′	0.01 0.01
I	46.83	40.51	0 +11	49.97	47.96	-6 + 3	50.41	56.79	-4 - 5	48.32	4.86	+5 - 7
2	46.97	40.69	-3 +12	50.03	48.25	-5 - 3	50.38	57.09	-2 - 9	48.22	5.06	+6 - 3
3	47.11	40.87	-5 +10	50.09	48.54	-3 - 7	50.35	57-39	+1 -10	48.12	5.26	+6 + ı
4	47.24	41.05	-6 + 6	50.14	48.84	0 -10	50.31	57.69	+4 - 9	48.01	5.45	+5 + 5
.5	47.37	41.24	-6 o	50.19	49.14	+3 —1ò	50.27	57.99	+6 - 6	47.91	5.63	+3 + 7
6	47.50	41.44	-4 - 5	50.23	49.44	+5 - 8	50.23	58.28	+6 - 2	47.80	5.82	0 + 8
7	47.63	41.64	-2 - 9	50.28	49.74	+6 - 5	50.19	58.57	+6 + 2	47.69	5.99	-2 + 7
8	47.75	41.85	+1 -11	50.31	50.04	<del>+</del> 7 °	50.14	58.86	+4 + 6	47.58	6.16	-3 + 4
9	47.88	42.06	+4 -10	50.35	50.34	+5 + 4	50.10	59,14	+2 + 7	47.47	6.33	-4 + 1
10	47.99.	42.28	+6 - 7	50.38	50.65	+3 + 6	50.04	59.42	0 + 7	47-35	6.49	-4 - 2
II	48.11	42.50	+7 - 3	50.41	50.95	+r + 7	49.99	59.70	-2 + 5	47.24.	6.65	-3 - 5
12	48.23	42.72	+6 + 1	50.44	51.26	-1 + 7	49-93	59.98	<b>-4</b> + 3	47.12	6.80	-2 - 7
13.	48.34	42.95	+5 + 5	{50.47 50.49	51.56 51.87	$\frac{-3}{-4} + \frac{4}{1}$	49.88	60.26	-4'-1	47.01	6.95	o — 8
14	48.45	43.18	+2 + 6	50.51	52.18	-4 - 2	49.81	60.53	-4 - 4	46.89	7.09	+1 -7
15	48.56	43.42	0 + 7	50.52	52.48	-3 - 5	49.75	60.81	-3 - 6	46.77	7.23	+3 - 5
16	48.66	43.66	-2 + 5	50.54	52.79	-2 - 7	49.68	61.07	-ı — 8	46.66	7.36	+4 -2
17	48.77	43.90	-3 + 3	50.54	53.11	-1 - 8	49.61	61.34	0 - 8	46.54	7.48	+4 + 3-
18	48.87	44.15	<b>-4</b> 0	50.55	53.42	+1 -8	49.54	61.60	+2 -7	46.41	7.60	+3 + 7
;19	48.96	44.40	-4 - 3	50.55	53.73	+2 6	49-47	61.86	+3 - 4	46.29	7.71	+1 +10
20	49.06	44.66	-3 - 6	50.55	54.04	. +3 - 3	49-39	62.11	+4 0	46.17	7.82	-r +11
21	49.15	44.92	-2 - 7	50.55	54-35	+4 + 1	49.31	62.36	+4+4	46.05	7.93	-3 +10
22	49.24	45.18	·o — 8	50.54	54.66	+3 + 5	49.23	62.61	+2 + 8	45.93	8.03	-5 + 7
23	49-33	45-44	+1 - 7	50.54	54.97	+1 + 9	49.15	62.85	0 +10	45.80	8.12	-6 + 3
24	49.41	45.71	+3 - 5	50.52	55.27	-ı. +ır	49.07	63.09	-2 +11	45.68	8.21	-5 - 3
25	49.50	45.98	+4 = 1	50.51	55.58	-3 +11	48.99	63.33	<del>-4 + 9</del>	45.55	8.29	-3 - 7
26	49-57	46.25	+3 + 3	50.49	55.88	-5 + 8	48.90	63.56	-5 + 6	45-43	8.36	- <b>1</b> - <b>1</b> 0
27	49.65	46.53	+2 + 7	50.47	56.19	-6 + 4	48.81	63.79	-6 + I	45.30	8.43	+2 -rr
28	49.72	46.81	+1 +10	50.44	56.49	-6 - I	48.72	64.01	<b>-5 - 4</b>	45.17	8.50	+4 - 9
29	-49.79	47.09	-2 +12	50.41	56.79	-4 - 5	48.62	64.23	-2 - 8	45.04	8.56	+6 - 5
30	49.85	47.38	-4 +11				48.52	.64.44	0 -10	44.91	8.61	+6 — ı
31	49.91	47.67	-6 + 7		3000	The same	48.42	64.65	+3 -10	44.78	8.66	+5 + 3
32	49.97	47.96	-6 + 3				48.32	64.86	+5 - 7	359500	130.50	20 30
STORE &	10 Th 10 67	F. S.	Charles and the	SHADOWO!	STATE OF THE PARTY.	STATE OF THE PARTY	12011-11	A COLOR	500 600 B	-	100000000	OFFICE AND ADDRESS

 $\alpha_{1947.0} = 9^{h} \cdot 29^{m} \cdot 41.80$ 

 $\delta_{1947.0} = +81^{\circ} 33' 48''03$ 

Ne)	I	Hev.	Draconis	4 <sup>m</sup> 58
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		Mai		es Car	Juni	iicv. Dia	100	Juli	G 10 5		Augus	t
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl,	© Glieder	AR.	Dekl.	© Glieder
. 33	537810	+	in	1900	+-	in		+	in		* +	in
	9 <sup>h</sup> 29 <sup>m</sup>	81° 34′	0.01 0.01	9 <sup>h</sup> 29 <sup>m</sup>	81° 34′	o.01 0.01	9 <sup>h</sup> 29 <sup>m</sup>	81° 33′	10.01	9 <sup>h</sup> 29 <sup>m</sup>	81° 33′	0.01 0.01
I	44.78	8,66	+5 + 3	40.99	7.33	-2 + 6	38.39	61.44	-4 - 3	37.51	52.15	+1 -8
2	44.65	8.70	+3 + 6	40.88	7.20	-3 + 3	38.33	61.19	-3 - 6	37.52	51.82	+2 - 7
3	44.52	8.74	+ı + 8	40.77	7.06	-4 0	38.27	60.92	-2 - 7	37.53	51.48	+3 - 4
4	44.39	8.77	-r + 7	40.67	6.92	-4 - 3	38.21	60.66	0 8	37.54	51.15	+4 0
5	44-27	8.79	-3 + 5	40.56	6.78	-3 - 6	38.16	60.39	+r - 8	37.55	50.81	+3 +4
6	44.14	8.81	-4 + 2 ·	40.46	6,63	-2 - 7	38.11	60.12	+2 - 6	37-57	50.47	+2 +8
. 7	44.01	8.83	-4 - I	40.36	6.47	0 8	38.06	59.84	+3 - 2	37.59	50.13	+1 +11
8	43.88	8.83	-4 - 4	40.26	6.31	+2 - 7	38.01	-59.56	+4 + 2	37.61	49.79	-2 +I2
9	43.76	8.83	-3 - 7	40.16	6.15	+3 -4	37.97	59.28	+3 + 6	37.63	49.45	-5 +II
10	43.63	8.83	-ı - 8	40.06	.5.98	+4 0	37.92	59.00	+1 +10	37.65	49.11	-6 + 7
II	43.50	8.82	+1 -8	39.96	5.81	+3 + 4	37.88	58.71	-ı +ı2	37.68	48.78	-7 + 2
12	43.37	8:81	+2 - 6	39.87	5.64	+2 + 8	37.84	58.42	-4 +12°	37.71	48.44	-6 - 3
13	43.25	8.79	+3 - 3	39.77	5.46	0 +11	37.80	58.13	-6 +io	37.74	48.09	<b>-4</b> ⋅ <b>-</b> 7
14	43.12	8.76	+4 + 1	39.68	5.27	-2 +12	37.77	57.83	-7 + 5	*)37.77	47-75	0 -10
15	43.00	8.73	+3 + 5	39.59	5.08	-4 +II	37.73	57.54	-6, 0	37.81	47.4I	+3, -10
16	42.87	8.69	+2 + 9	39.50	4.88	-6 + 8	37.70	57.24	<u>-4 - 5</u>	37.84	47.06	+5 - 7
17	42.75	8.65	0 +11	39.42	4.68	-6 + 3	37.68	56.93	-2 - 9	37.89	46.72	+6 -4
18	42.63	8.60	-3 +11	39.33	4.47	-5 = 3	37.65	56.63	+111	37.93	46.37	+6 -+ ı
19	42.51	8.54	-5 + 9	39.25	4.26	-3 - 8	37.63	56.32	+4 -10	37.97	46.03	+5. +.5
20	42.39	8.48	-6 + 5	39.17	4.05	o —io	37.61	56.01	+6 - 7	38.01	45.68	+3 +:7
21	42:27	8.42	-6 o	39.09	3.83	+3 -11	37.58	55.70	+7 - 2	38.06	45.34	0,+7
22	42.15	8.35	-4 6	39.01	3.61	+5 - 9	37.57	55.38	+6 + 2	38.11	44.99	-2 + 6
23	42.03	8.27	-2 - 9	38.94	3.39	+7 - 5	37.55	55.07	+4 + 5	38.16	44.65	-3 + 3
24	41.91	8.19	+1 -11	38.86	3.16	+7 0	37.54	54.75	+2 + 7	38.22	44.31	-4 - I
25	41.79	8.10	+4 -10	38.79	2.93	+5 +4	37.53	54.43	0 + 6	38.27	43.97	-3 - 4
26	41.67	8.00	+6 - 7	38.72	2.69	+3 + 6	37.52	54.11	-2 + 5	38.33	43.62	-2 🕳 7
27	41.56	7.90	+6 - 3	38.65	2.45	+1 +7	37.51	53.78	-3 + 2	38.39	43.28	-ı — 8
28	41.45	7.80	+6 + 1	38.58	2.20	-1 + 6	37.51	-53.46	<u>-4 - 2</u>	38.46	42.94	0 - 9
29	41.33	7.69	+-4 + 5	38.52	1.95	-3 + 4	37.51	53.13	-3 - 5	38.52	42.60	+2 - 8
30	41.22	7.57	+2 + 7	38.45	1.70	-4 + I	37.51	52.80	-2 - 7	38.59	42.26	+3 - 5
31	41.11	7.45	0 + 7	38.39	1.44	<u>-4 - 3</u>	37.51	52.48	-ı — 8	38.66	41.91	+4 - 2
32	40,99	7.33	-2+6				37.51	52.15	+1 - 8	38.73	41.57	+4 + 2

 $<sup>\</sup>alpha_{1947.0} = 9^{h} 29^{m} 41.80$   $\delta_{1947.0} = +81^{h} 33' 48.03$ 

<sup>\*)</sup> Tag der doppelten unteren Kulmination: Aug. 14.

Obere Kulmination Greenwich

Ne)	I	Hev.	Draconis	4 <sup>m</sup> 58
Contract to the second			Married Married World	

m		Septemb	oer	1	Oktobe	er		Noveml	ber		Dezemb	er
Tag	AR.	Dekł.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
2/4	1550	+	in		- +	in		+	in		+	in
	9 <sup>h</sup> 29 <sup>m</sup>	81°33′	10.01	9 <sup>h</sup> 29 <sup>m</sup>	81° 33′	0.01 0.01	9 <sup>h</sup> 29 <sup>m</sup>	81° 33′	10.0 10.0	9 <sup>h</sup> 29 <sup>m</sup>	81° 33′	10,01
· I`	38.73	41.57	+4. +. 2	41.80	32.11	0 +11	46.49	25.08	-6 + <b>2</b>	51.78	22.54	-2 - 9
2	38.80	41.24	+3 + 6	41.93	31.83	-3 +II	46.66	24.92	-6 - 3	51.96	22.54	+1 -11
3	38.88	40.90	+1 +10	42.06	31.55	$-5^{-}+9$	46.83	24.76	-4 - 7	52.13	22.55	+4 - 9
. 4	38.96	40.56	-i +ii	42.20	31.28	-6 + 6	47.00	24.61	-I -IO	52.31	22.56	+6 - 6
5	39.04	40.23	-4 +IJ	42.33	31.01	-6 + I	47.18	24.47	+2 -io	52.48*	22.58	+6 - 2
б	39.12	39.89	-6 + 9	42.47	30.74	-5 - 4	47.35	24.33	÷4 — 8	52.65	22.61	+6 + 3
7	39.21	39.56	-7 + 4	42.61	30.48	-3 - 8	47.52	24.19	+6 - 4	52.82	22.64	+4 + 6
8	39.29	39.23	-6 - 1.	42.75	30.21	0 -10	47.69	24.06	+6 0	53.00	22.68	+1 +8
9.	39.38	38.90	-45	42:89	29.95	+3 - 9	47.87	23.93	+5 + 4	53.17	22.72	$-\mathbf{r} \cdot + 7$
1.0	39.47	38.57	-2 - 9	43.03	29.70	·	48.04	23.8ì	+3 + 7	53.34	22.77	-2 + 5
II (	39.56	38.24	+1 -10	43.17	29.44	+6 - 2	48.22	23.70	+1 + 8	53.51	22.82	-4 + 2
12:	39.65	37.92	+4 - 8	43-32	29.19	+6 + 2	48.39	23.59	-ı ÷ 7	53.68	22.88	-4 - 2
13	39.75	37.59	+6 - 5	43.46	28.95	+4 + 6	48.57	23.48	-3 + 4	53.85	22:95	-3 - 5
14	39.85	.37.27	+6 - r	43.61	28.71	+2 +8	48.75	23.39	-4 + r	54.02	23:02	-2 - 8
15	39.95	36.95	+5 + 3	43.76	28.48	0 + 8	48.93	23.30	<u>-4 - 3</u>	54.18	23.10	0 - 9
16	40.05	.36.64	+4 + 7	43.92	28.25	-2 + 6	49.11	23.21	-3 - 6	54-35	23.18	+r - 8
17	40.16	36.32	+1 + 8	44.07	28.02	<b>-4</b> + 3	49.29	23.12	-2 - 8	54.52	23.27	+3 7
18.	40.27	36.00	-i +,7.	44.22	27.79	-4 - I	49.46	23.04	0 - 9	54.68	23.36	+4 4
19	40.37	35.69	-3 + 4	44-37	27.57	-4 - 5	49.64	22,97	+2 - 8	54.84	23.46	+4 + 1
20	40.48	35.38	-4 + I	44.53	27.35	-2 - 7	49.82	22.90	+3 - 5	55.00	23.56	+3 + 5
21	40.59	35.07	-4 - 3	44.68	27.14	-ı - 9	50.00	22.84	+4 - 2	55.16	23.67	+2 + 9
22	40.71	34.76	-3 - 6	44.84	26.93	+x - 9	50.17	22.79	+4 + 2	55.31	23.79	0 4-11
23	40.82	34.46	-2 - 8	45.00	26.73	+2 - 7	50.35	22.74	+3 + 6	55.47	23.91	-3 + 12
24	40.94	34.16	0 - 9	45.16	26.53	+4 - 4	50.53	22.69	+1 +10	55.62	24.04	-5 +11
25	41.06	33.86	+2 - 8	45-33	26.33	+4 - I	50.71	22.65	—I +I2	55.77	24.17	-6 + 7
26.	41.18	33.56	+3 - 6	45.49	26.14	+4 + 4	50.89	22.62	-3. +11.	55.92	24.31	<b>-7</b> + 2
27	41.30	33.27	+4 - 3	45.66	25.95	+2 + 7	51.07	22.59	-5. + 9	56.07	24.45	-6 - 3
28	41.42	32.98	+4 + 1	45.82	2.5.77	0 +10	51.25	22.57	-6 + 5	56.22	24.60	-3 - 8
29	41.55	32.68	+3 + 5	45.99	25.59	-2 +11	51.43	22.56	-6 <b>- 1</b>	56.36	24.75	o —10
30	41.67	32.40	+2 + 8	46.16	25.41	<u>-</u> 4 +10	51.61	22.55	<del>-4 - 6</del>	56.51	24.91	+3 -10
31	41.80	32.11	0 +11	46.32	-25.24	-6 + 7	51.78	22.54	-2 - 9	56.65	25.08	+5 - 8
32				46.49	25.08	-6 + 2	1283	17. E.		56.80	25.24	+7 - 4

 $\alpha_{1947.0} = 9^h 29^m 41.80$ 

 $\delta_{1947.0} = +81^{\circ} 33' 48.03$ 

Obere Kulmination Greenwich

Nt) 30 Hev. Car	elopardalis 5 <sup>m</sup> 34
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		Janua	r	11//	Februa	r Cumor		März	COLUMN TOWN		April	
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
200	100000	+	in	0.338	+	in		+	in		4	in
	10 <sup>h</sup> 24 <sup>m</sup>		0.01 0.01	10 <sup>h</sup> 24 <sup>m</sup>	82° 49′	0.01 0.01	10 <sup>h</sup> 24 <sup>m</sup>	82° 49′	0.01 0.01	10 <sup>h</sup> 24 <sup>m</sup>		0.01 0.01
1	52.92	36.57	+1 +11	57.49	42.44	-7 + 5	59.14	50.97	-5 - 3	57.76	0.02	+5 - 9
2	53.10	36.68	-2 +12	57.59	42.70	-6 o	59.14	51.28	-3 - 7	57.67	0.27	+6 - 6
3	53.28	36.79	-4 +11	57.70	42.96	-5 - 5	59.15	51.60	o.—10	57.58	0.52	+7 - 2
4	53.46	36.92	-6 + 8	57.79	43.23	-2 - 9	59.14	51.91	+3 -10	57.48	0.76	+6 + 2
5	53.63	37.04	-6 + 2	57.89	43.50	+2 -10	59.14	52.22	+6 - 8	57.38	1.00	+4 + 5
6	53.80	37.18	-6 - 3	57.98	43.77	+5 -10	59.13	52.53	+7 - 4	57.28	1.24	+1 +7
7	53.97	37.32	-3 - 8	58.07	44.05	+6 - 7	59.12	52.84	+6 0	57.18.	1.47	-I + 7
8	54.14	37.46	0 —11	58.15	44.33	+7 - 3	59.10	53.14	+5 + 4	57.07	1.70	-3 + 5
9	54.31	37.61	+3 -11	58.23	44.61	+6 + 1	59.08	53.45	+3 + 6	56.96	1.92	-4 + 3
10	54.48	37.77	+6 - 9	58.31	44.90	+5 + 4	59.06	53.76	0 + 7	56.85	2.14	<b>−</b> 5 ∘
11	54.64	37.93	+7 - 6	58.38	45.19	+2 + 6	59.03	54.06	-2 6	56.74	2.36	-5 - 4
12	54.80	38.10	+7 - 2	58.46	45.48	0 + 6	59.00	54.37	-4 ± 4	56.63	2.57	-3 - 6
13	54.96	38.27	+6 + 2	58.52	45.77	-3 + 5	58.97	54.67	−5 <del>1.</del> 1	56.51	2.78	-i - 7
14	55.12	38.44	+4 + 5	58.59	46.07	-4 + 3	58.93	54.97	-5 - 2	56.39	2.98	0 - 7
15	55.28	38.62	+1 -4-6	58.65	46.36	-5 0	58.90	55.27	<b>−4 −</b> 5	56.27	3.17	+2 - 6
16	55.43	38.8r	-1 + 6	58.71	46.66	-5 - 3	58.85	55.57	-3 - 7	56.15	3.37	+4 - 3
17	55.58	39.00	-3 + 4	58.76	46.96	-3 - 5	58.81	55.86	-1 - 7	56.03	3-55	+5 + 1
18	55.73	39.20.	-4 + 2	58.81	47.26	-2 - 7	58.76	56.16	+1 -7	55.91	3.73	+4 + 5
19	55.87	39.40	-5 - 1	58.86	.47.56	0 - 7	58.71	56.45	+3 - 5	55.78	3.91	+2 + 9
20	56.01	39.61	-4 - 4	58.90	47.87	+2 - 6	58.65	56.74	+4 - 2	55.65	4.08	0 +11
21	56.15	39.82	-3 - 6	58.94	48.18	+3 - 4	58.59	57.03	+5 + 2	55.52	4.25	-2 +11
22	56.29	40.04	-1 - 7	58.98	48.48	+4 0	58.53	57.32	+4 + 6	55-39	4.42	-5 + 9
23	56.42	40.26	+1 -7	59.01	48.79	+4 + 4	58.47	57.60	+2 + 9	55.26	4.58	-6 + 5
24	56.56	40.48	+2 - 5	59.04	49.10	+3 + 8	58.40	57.89	-i +ii	55.13	4.73	-6 o
25	56.68	40.71	+4 - 2	59.06	49.41	+1 +10	58.34	58.16	-3 +io	54.99	4.88	<b>-4 -</b> 5
26	56.81	40.94	+4 + 1	59.09	49.72	-2 +11	58.26	58.44	-5· + <u>-7</u>	54.86	5.02	-2 - 9
27	.56.93	41.18	+4 + 6	{ 59.10 59.12	50.03 50.34	-4 + 101 -6 + 6	58.19	58.71	-6 + 3	54.72	5.16	+1 -11
28	57.05	41.43	+2 +9	59.13	50.66	-6 + 2	58.11	58.98	-6 - 2	54.58	5.29	+4 -10
29	57.16	41.67	0 +11	59.14	50.97	-5 - 3	58.03	59.24	-4 - 6	54.43	5.41	+6 - 7
30	57-27	41.92	-3 +11				57.94	59.50	-ı - 9	54.29	5.53	+7 - 4
31	57.38	42.18	-5 + 9		1-190		57.85	59.76	+2 -IO	54.15	5.65	+6 + 1.
32	57.49	42.44	<b>-7</b> + 5	100			57.76	60.02	+5 - 9		200	
( - 10 h	275355	G.C. Co.	1000000	1000	W. 6500		276 0	A PHIAD	-	3 - 7 - 8	St. Santa	12 No. 12 No.

tg 8 sec 8 tg 8 tg 8 sec 8 sec 8 +82° 49′ 30″ +82° 49′ 50″ 8.006 +7.944 8.013 +7.950 +82° 50′ 6′′ 8.016 +7.953 8.009. +7.947 8.016 +7.953 8.019 +7.956

 $\alpha_{1947.0} = 10^{h} 24^{m} 47.99$ 

 $\delta_{1947.0} = +82^{\circ} 49' 46''98$ 

MI) 30 Hev. Cameropardans 5-32	N <sub>1</sub> )	30	Hev.	Camelopardalis	5 <sup>m</sup> 34
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	g Mai			900	Juni			Juli	(C.E.) (C.E.)	200	Augus	VAN ENGINE
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
1		+	in	1000	+	in	18 40	+	in	- Const.	+	in
	10 <sup>h</sup> 24 <sup>m</sup>		0.01 0.01	10 <sup>h</sup> 24 <sup>m</sup>	82° 50′	10.01	10 <sup>h</sup> 24 <sup>m</sup>		0.01 0.01	10 <sup>h</sup> 24 <sup>m</sup>	82° 49′	10,0 10,0
1	54.15	5.65	+6 + I	49.56	6.41	-2 + 6	45.69	62.13	-5 - I	43.39	53.62	o — 8
2	54.01	5.76	+5 + 4	49.41	6.34	-3 + 4	45.59	61.91	-4 - 4	43-35	53.29	+2 - 7
3	53.86	5.86	+2 + 6	49.26	6.27	-4 + 2	45.49	61.69	-3 - 6	43.31	52.97	+3 - 5
4	53.72	5.96	0 + 7	49.12	6.19	-5 - 1	45.39	61.46	-2 - 7	43.28	52.64	+4 - 1
5	53.57	6.05	-2 + 6	48.98	6.11	<u>-4 4</u>	.45.29	61.23	0 - 7	43.25	52.31	+4 + 3
6	53.43	6.14	-4 +.4	48.84	6.02	-3 - 6	45.19	60.99	+2 - 6	43.22	51.98	+3 + 7
7	53.28	6.22	-5 + · I	48.70	5.93	-1 - 7	45.09	60.75	+3 - 3	43.19	51.64	+1 ,+10
8	53.13	6.30	-5 - 2	48.56	5.83	+1 - 7	45.00	60.51	+4 0	43.17	51.30	-I +I2
.9	52.98	6.37	<b>-4</b> - 5	48.42	5.72	+3 - 5	44.91	60.26	+4 + 5	43.15	50.96	-4 +12
10	52.83	6.43	-2 - 7	48.28	5.61	+4 - 2	44.82	60.01	+3 + 9	43.13	50.62	-6 + 9
11	52.68	6.49	0 - 7	48.14	5.50	+4 + 2	44.73	59.76	0 +12	43.11	50.28	<b>-7 + 5</b>
12	52.53	6.54	$+2^{\circ} - 6$	48.00	5.38	+4 + 6	44.64	59.50	-2 +12	43.10	49.93	-7 0
13	52.38	6.59	+3 -4	47.87	5.25	+2 +10	44.55	59.24	-5 +11	43.09	49.59	-5 - 5
14	52.23	6.63	+4 0	47-73	5.12	-I +I2	44.47	58.97	-7 + 8	43.08	49.24	-2 - 9
15	52.08	6.67	+4 + 4	47.60	4.99	-3 +12	44.39	58.70	7 + 3	43.07	48.89	+2 -10
16	51.93	6.70	+3 + 8	47-47	4.84	-6 + 9	44.31	58.43	-6 - 3	43.07	48.54	+5 - 9
17	51.78	6.72	+1 +11	47.34	4.70	-7 + 5	44.24	58.15	-3 - 8	43.07	48.19	+7 - 6
18	51.63	6.74	-2 +12	47.21	4.54	6 - 1	44.17	57.87	0 -10	43.07	47.83	+7 - 2
19	51.48	6.75	-4 +10	47.09	4.38	<del>-4</del> - 6	44.10	57-58.	+3 -11	43.07	47-47	+6 + 2
20	51.33	6.76	-6 + 7	46.96	4.22	-2 -IO	44.03	57.29	+6 - 9	43.08	47.12	+4 + 5
21	51.18	6.76	-6 + 2	46.84	4.05	+2 -11	43.96	57.01	+7 - 5	43.09	46.76	+1 + 6
22	51.03	6.76	-5 - 3	46.72	3.88	+5 -10	43.90	56.71	+7 -1	43.10	46.40	-1 + 6
23	50.87	6.75	-3 - 8	46.60	3.71	+7 - 7	43.84	56.42	+5 + 3	43.11	46.04	-3 + 4
24	50.72	6.73	o —II	46.48	3.53	+7 - 3	43.78	56.12	+3 + 6	43.13	45.68	-4 + 1
25	50.58	6.71	+3 -11	46.36	3.34	+6 + 1	43.72	55.82	0+6	43.15	45.32	-5 - 3
26	50.43	6.69	+6 - 9	46.24	3.15	<del>+5</del> + 4	43.67	55.51	-2 + 5	43.17	44.96	-4 - 5
27	50.28	6.66	+7 - 6	46.13	2.96	+2 + 6	43.62	55.20	-3 + 3	43.19	44.59	-2 - 7
28	50.14	6.62	+7 — I .	46.02	2.76	-1 + 6	43.57	54.89	-4 0	*)43.22	44.23	-r - 8
29	49.99	6.57	+6 + 3	45.91	2.55	-3 + 5	43.52	54-57	-4 - 3	43.25	43.87	+1 - 8
30	49.85	6.52	+3 + 6	45.80	2.34	-4 + 2	43.47	.54.26	-3 - 6	43.28	43.50	+3' 6
′3 <b>1</b>	49.70	6.47	+1 + 7	45.69	2.1.3	-5 <b>- 1</b>	43.43	53.94	-2 - 7	43.31	43.14	+4 - 3
32	49.56	6.41	-2 + 6				43.39	53.62	0 - 8	43.35	42.77	+5 + 1

 $\alpha_{1947.0} = 10^{h} 24^{m} 47^{5}99$ 

 $\delta_{1947.0} = +82^{\circ} 49' 46''98$ 

<sup>\*)</sup> Tag der doppelten unteren Kulmination: Aug. 28.

Obere Kulmination Greenwich

Nt)	30	Hev.	Camelopardalis	5 <sup>m</sup> 34

		Septeml	oer	2(1)	Oktobe	er.		Novem	5 5 5		Dezemb	er
Tag	AR.	Dekl.	© Glieder	AR.	· Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
	1000	+ :	in	200	+	in		+	in	1200	+	in
	10 <sup>h</sup> 24 <sup>m</sup>		0.01 0.01	10 <sup>h</sup> 24 <sup>m</sup>	CONTRACTOR OF THE	0.01 0.01	10 <sup>h</sup> 24 <sup>m</sup>	82° 49′	0.01 0.01	10 <sup>h</sup> 24 <sup>m</sup>	82° 49′	0.01 0.01
1	43.35	42.77	+5 + 1	45.59	32.04	+1 +10	50.05	22.91	-7 + <u>5</u>	55.79	17.92	-3 - 8
2	43.39	42.41	+4 + 5	45.70	31.71	-2 +11	50.23	22.67	-7 0	55.99	17.84	0, -10
3	43.43	42.04	+2 + 9	45.82	31.37	-4 +10	50.40	22.43	-5 - 5	.56.19	17.76	`+3 —10
4	43-47	41.68	0 +11	45.93	31.04	-6 + 7	50.58	22.21	-29	56.39	17.69	+6 - 8
5	43.52	41.31	-3 +11	46.05	30.71	-7 + 3	50.76	21.98	+1 -10	56.60	17.63	+7 - 4
6	43.57	40.95	-5 +10	46.17	30.38	<u>-6 - 2</u>	50.94	21.76	+4 - 9	56.80	17.57	+7 .0.
7	43.62	40.58	-7 + 7	46.30	30:06	-4 - 6	51.12	21.54	+6 - 6	57.01	17.52	. +5 + 4.
8	43.67	40.21	-7 + 2	46.42	29.73	-ı - 9	51.30	21.33	+7 - 2	57.21	17.47	+3 + 6
9	43.73	39.85	-6 - 3	46.55	29.41	+2 -10	51.48	21.13	+6 + 2	57.42	17.43	0 + 7
10	43.79	39.48	-3 - 7	46.68	29.09	+5 - 8	51.67	20.93	+4 + 5	57.62	17.39	<u>−2</u> + 6
, II	43.85	39.11	0 - 9	46.81	28.77	+6 - 5	51.85	20.73	+2 + 7	57.82	17.37	-4 + 3
12	43.91	38.75	+3 - 9	46.95	28.46	+7 0	52.04	20.54	-1 + 7	58.03	17.35	<b>−5</b> •.
13	43.98	38.39	+6 - 7	47.08	28.15	+6 + 4	52.23	20.36	-3 + 5	58.23	17.33	<b>-4</b> - 4
14	44.05	38.03	+7 - 3	47.22	27.85	+3 + 6	52.42	20.18	-4 + 2	58.42	17.32	-3 - 6
15	44.12	37.67	+6 + 1	47.37	27.54.	+1 +7	52.61	20.00	-5 - I	58.62	17.32	-ı — 8
- 16	44.19	37.31	+5 + 5	47.51	27.25	-2 + 6	52.81	19.83	-4 - 5	58.82	17.33	0 - 8
17	44.27	36.95	+2 + 7	47.66	26.95	<u>-4</u> + 4	53.00	19.66	-3 - 7	59.02	17.34	+2 - 7
18	44.35	36.59	0 + 7	47.81	26.65	-5 + 1	53.20	19.50	-ı - 8	59.22	17.35	+4 - 5
19	44.43	36.23	-3 + 5	47.95	26.36	-5-3	53.39	19.35	+1 -8	59.42	17.37	+5-1
20	44.51	35.87	-4 + 2	48.10	26.07	_4 - 6	53.58	19.20	+3 - 6	59.61	17.40	+4 + 3
21	44.60	35.52	-5 - I	48.26	25.78	-2 <del>-</del> 8	53.78	19.05	+4 - 3	59.81	17.44	+3 + 7
22	44.69	35.16	-4 - 4	48.41	25.50	0 - 9	53.98	18.91	+5 + 1	60.00	17.48	+1 +11
23	44.78	34.81	-3 - 7	48.57	25.22	+2 - 8	54.18	18.78	+4 + 5	60.20	17.53	-I +I2
24	44.87	34.46	-ı - 8	48.73	24.95	+3 - 5	54.38	18.65	+3 + 9	60.39	17.58	<b>-4</b> +12
25	44.97	34.11	+1 -8	48.88	24.68	+4 - 2	54.58	18.53	0 +11	60.58	17.64	-6 + 9
26	45.07	33.76	+3 - 7	49.05	24.42	+5 + 2	54.78	18.42	-2 +12	60.77	17.71	- <del>7</del> + 5.
27	45.17	33.42	+4 4	49.21	24.16	+4 + 6	54.98	18.31	<u>-5</u> +10	60.96	17.78	-7 - ı
28	45.27	33.07	+5 - 1	49.37	23.90	+2 + 9	55.18	18.20	-6 + 7	61.15	17.86	-5 - 6
29	45.37	32.73	+4 + 3	49.54	23.65	0 +11	55.38	18.10	-7 + 2	61.34	17.94	-2 - 9
30	45.48	32.38	+3 + 7	49.71	23.39	-3 +11	55.58	18.01	-6 - 3	61.52	18.03	+2 -11
31	45.59	32.04	+1 +10	49.88	23.15	-5 + 9	55.79	17.92	$-3^{\circ} - 8$	61.71	18.12	+5 -10
32				50.05	22.91	-7+5				61.89	18.22	+7 - 6
	45.59		1 +1 +10	50.05	22.91	-7 + 5				77.70	18.22	1

tg 8 sec 8 sec 8 tg 8 sec 8 tg 8 +82° 49′ 10″ +82° 49′ 40″ 8.000 +7.937 | +82° 49′ 30″ 8,006 +7.944 8.009 +7.947 8.003 +7.941 8,009 +7.947 8.013 +7.950

 $\alpha_{1947.0} = 10^{h} 24^{m} 47.99$ 

 $\delta_{1947.0} = +82^{\circ} 49' 46.98$ 

Obere Kulmination Greenwich

$Ng)$ $\varepsilon$	Ursae	minoris	4 <sup>m</sup> 40
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m		Janua	r		Februa	ir	95.3	März			April	
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
		+	in*	4.58	+	in	15/4/3	+	in	79	+	in
	16 <sup>h</sup> 51 <sup>m</sup>		0.01 0.01	16 <sup>h</sup> 51 <sup>m</sup>	82° 7′	0.01 0.01	16 <sup>h</sup> 51 <sup>m</sup>	82° 7′	0.01 0.01	16 <sup>h</sup> 51 <sup>m</sup>	82° 7′	0.01 0.01
I	12.73	29.39	+4 - 5	15.75	20.29	41 +10	19.98	16.43	0 +10	24.78	18.07	-3 - I
2	12.78	29.04	+4 0	15.88	20.07	-1 +11	20.14	16.39	-2 410	24.92	18.22	-3 - 6
3	12.84	28.70	+3 + 4	16.02	19.86	-2 + 9	20.30	16.35	-3 + 7	25.06	18.37	-1 - 9
4	12.90	28.35	+2. + 8	, 16.15	19.65	-3 + 5	20.46	16.32	-3 + 2	25.19	18.53	· o —II
5	12.97	28.02	0 +10	16.29	19.45	-4 0	20.63	16.30	-3 - 3	25.33	18.70	+1 -10
6	13.04	27.68	-2 +IO	16.43	19.25	-3 - 5	20.79	16.28	-2 - 8	25.46	18.87	+2 - 8
7	13.11	27.35	-3 + 7	16.57	19.06	-2 - 9	20.95	16.27	-I -IO	25.59	19.05	+2 -4
8	13.18	27.02	-4 + 2	.16.72	18.87	-ı -ıı	21.11	16.26	0 —11	25.72	19.23	+2 + I
9	13.26	26.70	<b>-4 - 3</b>	16.86	18.69	+1 -11	21.27	16.26	+2 -10	25.84	19.42	+1 +4
10	13.34	26.38	-3 - 7	17.01	18.52	+2 - 8	21.43	16.27	+2 - 6	25.97	19.62	o + 7
II	13.43	26.06	-ııo	17.16	18.35	+2 -5	21.59	16.29	+2 - 2	26.09	19.82	0+9
12	13.52	25.74	. 0 —11	17.31	18.19	+2 0	21.75	16.31	+2 + 2	26.21	.20.02	-1 + 9
13.	13.60	25.43	+1 -10	17.46	18.03	+1 + 4	21.91	16.34	+1 + 6	26.33	20.23	-2 + 7
14	13.70	25.12	+2 - 7	17.61	17.88	+1 +7	22.07	16.37	0 + 8	26.45	20.44	-2 + 4
15	13.79	24.81	-1-2 - 3	17.76	17.74	0+9	22.23	16.41	-1 + 6	26.57	20.66	-2 + I
16	13.89	24.51	+2 + I.	17.91	17.61	-ı + 9	22.39	16.46	-2 + 8	26.68	20.88	-2 - 3
17	13.99	24.21	+1 + 5	18.07	17.48	-2 + 7	22.55	16.51	-2 + 6	26.79	21.10	-r - 6
18	14.09	23.92	0 + 7	18.23	17.35	-2 + 5	22.71	16.57	-3 + 3	26.90	21.33	+1 -8
19	14.19	23.63	-1 + 9	18.38	17.24	-2 + 2	22.86	16.64	-2 - I	27.01	21.56	+2'-8
20	14.30	23.35	-2 + 8	18.54	17.13	-2 - 2	23.01	16.71	-ı -'4	27.11	21.80	+3 - 7
21	14.41	23.07	-2 + 7	18.70	17.03	-I - 5	23.17	16.79	0 - 7	27.21	22.04	+4 - 3
22	14.52	22.79	-2 + 4	18.85	16.93	0 - 8	23.32	16.88	+r - 8	27.31	22.29	+4 + 1
23	14.63	22.52	-2 + 1	19.01	16.84	+2 -8	23.47	16.97	+2 - 8	27.41	22.53	+3 + 6
24	14.74	22.25	-1 - 3	19.17	16.75	+3 - 7	23.63	17.07	+3 - 5	27.50	22.79	+1 +9
.25	14.86	21.99	0 - 6	19.33	16.68	+4 - 4	23.78	17.18	+4 - I	27.59	23.04	-1 +10
26	14.98	21.73	· +1 - 8	19.49	16.61	+4 0	23.93	17.29	+3 + 3	27.68	23.30	-2 + 9
27	15.10	21.48	+2 - 8	19.65	16.54	+3 + 5	24.07	17.40	+2 +7	27.77	23.56	-3 + 6
28	15.23	21.23	+3 - 6	19.81	16.48	+2 +9	24.22	17.52	+1 +10	27.85	23.83	-4 + 1
29	15.36	20.99	+4 - 2	19.98	16.43	0 +10	24.36	17.65	-ı +ıo	27.93	24.10	-3 - 4
30	15.49	20.75	+4 + 2				24.50	17.78	-2 + 8	28.01	24.37	-2 - 8
31	15.62	20.52	+3 + 7		130.125		24.64	17.92	-3 + 4	28.09	24.65	-I -II
32	15.75	20.29	+1 +10	100	( ) ( )		24.78	18.07	-3 - 1			F-15-74
N. 1000	976 252	ALC: DAS	The same	A - C - C - C - C	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	000000000000000000000000000000000000000	San Comment	SPECTA .	Committee of the second	000000	1283330	(A) (B) (B) (B)

 $\alpha_{1947.0} = 16^{h} \text{ 51}^{m} \text{ 19.33}$ 

 $\delta_{1947.0} = +82^{\circ} 7' 39''35$ 

Obere Kulmination Greenwich

Ng)	ε	Ursae	minoris		4 <sup>m</sup> 40	
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		Mai			Juni	CIBBO III		Juli		1 a 1	Augus	t
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
	Sec. 202	4-	in	0.7536	+	in	200	+	· in	1925	+3	in
	16 <sup>h</sup> 51 <sup>m</sup>	82° 7′	8 0,01	16 <sup>h</sup> 51 <sup>m</sup>	82° 7′	0.01 0.01	16 <sup>h</sup> 51 <sup>m</sup>	82° 7′	0.01 0.01	16 <sup>h</sup> 51 <sup>m</sup>	82° 7′	0.01 0.01
I	28.09	24.65	-ı -ıı	29.16	34.05	+2 - 3	27.58	43.14	-1 + 8	23.80	49.49	-3 + 2
2	28.17	24.93	+1 -11	29.15	34.36	+2 + 2	27.49	43.40	-2 + 8	23.65	49.63	-2 - 1
3	28.24	25.21	+2 - 9	29.14	34.67	+1 + 5	27.40	43.66	-2 + 7	23.50	49.76	-1 - 5
4	28.31	25.49	+2 - 5	29.12	34.99	o + 8	27.30	43.91	-3 + 4	23.35	49.89	0 - 7
5	28.37	25.77	+2 - I	{29.10 29.08	35.30 35.61	$\begin{bmatrix} -1 & +8 \\ -2 & +8 \end{bmatrix}$	27.21	44.16	-2 + I	23.20	50.02	+1 -8
6	28.44	26.06	+2 + 3	29.06	35.92	-2 + 6	27.11	44.40	-2 - 2	23.04	50.14	+3 - 8
7	28.50	26.35	+1 + 6	29.03	36.23	-3 + 4	27.00	44.64	-ı <b>-</b> 5	22.88	50.25	+4 - 5
8	28.56	26.64	0 + 8	29.00	36.53	<b>-2</b> 0	26.90	44.88	0 - 8	22.72	50.36	+4 - 1
9	28.62	26.93	'-r + 9	28.96	36.84	-r - 4	26.79	45.12	8	22.56	50.47	+4 + 3
10	28.67	27.23	-2 + 8	28.92	37.15	0 - 7	26.68	45.36	+3 - 7	22.40	50.57	+3 +8.
11	28.72	27.53	-2 + 6	28.88	37.45	+1 - 8	26.58	45.59	+4 - 4	22.24	50.67	+1 +11
12	28.77	27.83	-2 + 2	28.84	37.76	+3 - 8	26.46	45.81	+4 + 1	22.08	50.76	-1 +11
13	28.82	28.13.	-2 - I	28.80	38.06	+4 - 6	26.35	46.04	+4 + 5.	21.91	50.85	-2 + 9
14	28.86.	28.43	-I - 5	28.75	38.36	+4 - 2	26.23	-46.26	+2 +10	21.75	50.93	-3 + 5
15	28.90	28.74	0 - 8	28.70	38.66	+4 + 3	26.11	46.47	0 +11	21.58	51.01	-3 - I
16	28.94	29.04	+2 - 9	28.65	38.95	+3 + 7	25.99	46.68	-I +IO	21.42	51.08	-3 - 6
17	28.98	29.35	+3 - 8	28.60	39.25	+1 +10	25.87	46.88	-3 + 7	21.25	51.15	-2 -IO
18	29.01	29.66	+4 - 5	28.54	39.54	-ı +ıı	25.74	47.08	-4 + 2	21.08	51.21	0 -12
19	29.04	29.97	+4 0	28.48	39.83	-2 + 9	25.61	47.28	-4 - 3	20.91	51.27	+1 -11
20	29.06	30.28	+3 + 5	28.42	40.12	<del>-4 + 5</del>	25.48	47.48	-3 - 8	20.74	51.32	+2 - 8
21	29:08	30.60	+2 + 8	28.36	40.41	<del>-4</del> 0	25.35	47.67	-i -ii	20.57	51.37	+2 -4
22	29.10	30.91	0 +11	28.29	40.69	-3 - 6	25.22	47.85	0 -12	20.40	51.42	+2 + I
23	29.12	31.22	-2 +10	28.22	40.97	-2 -IO	25.08	48.04	+1 —IO	20.23	51.46	+1 +5
24	29.14	31.54	-3 + 7	28.15	41.25	-I -I2	24.95	48.22	+2 - 6	20.06	51.49	0 + 7
25	29.15	31.85	-4 + 3	28.07	41.53	+1 -11.	24.81	48.39	+2 - 2	19.88	51.52	.—ı + 8
26	29.16	32.16	-4 - 3	28:00	41.80	+2 - 8	24.67	48.56	+2 + 2	19.70	51.55	-2 + 8
27	29.17	32.47	-37	27.92	42.07	+2 - 4	24.53	48.72	+1 +6	19.53	51.57	-3 + 6
28	29.17	32.79	-ııo	27.84	42.34	+2 0	24.39	48.88	0 + 8	19.35	51.58	-3 + 3
29	39.17	33.10	0 —11	27.75	42.61	+1 +4	24.24	49.04	-1 + 8	19.17	51.59	_3 o
30	29.17	33.42	+1 -10	27.67	42.88	0 + 7	24.10	49.19	-2 + 7	19.00	51.59	<b>-2</b> <del>-</del> 4
31	29.16	33.73	+2 - 7	27.58	43.14	-ı + 8	23.95	49.34	-3 + 5	18.82	51.59	-r - 6
32	29.16	34.05	+2) - 3	2726.85			23.80	49.49	-3 + 2	18.65	51.59	+r - 8
	70.73	100 m	35800/04		23 To 6	THE PARTY	17.00 PM	100			NO SURVEY	100 200

tg 8 tg 8 sec 8 tg 8 sec 8 sec 8 17:301 +82° 7′ 20′′ 7.296 +7.227 +82° 7′ 40″ +7.232 +82° 7′ 50″ 7.304 +7.235 7.299 +7.230 50 7.304 +7.235 60 7.306 +7.238

 $\alpha_{1947.0} = 16^{h} 51^{m} 19.33$ 

 $\delta_{1947.0} = +82^{\circ} 7' 39''35$ 

Ng) ε Ursae minoris 4 <sup>m</sup>
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115	1000			4		ε Orsae minoris 4.740						
Tag	N. 48 (S.	Septem	ber	28.50	Oktobe	er		Novemb	er		Dezemb	er
1.6	AR.	Dekl.	.C Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
233		+	in	15000	-+-	in	100	+	in	PART OF THE PART O	+	in
100	16 <sup>h</sup> 51 <sup>m</sup>	82° 7′	0.01 0.01	16 <sup>h</sup> 51 <sup>m</sup>	82° 7′	0.01 0.01	16 <sup>h</sup> 51 <sup>m</sup>	82° 7′	0.01 0.01	16 <sup>h</sup> 51 <sup>m</sup>	82° 7'	0.01 0.01
I	18.65	51.59	+1 -8	13.38	49:06	+4 - 4	8.82	42.00	+1 +10	6.36	32.00	-3 + 7
2	18.47	51.57	+2 - 8	13.21	48.89	+4 0	8.70	41.71	-r +11	6.32	31.63	-4 + 2
3	18.29	51.56	+3 - 6	13.04	48.73	+3 + 4	8.58	41.41	-2 + 9	6.28	31.27	-3 - 3
4	18.11	51.54	+4 - 3	12.88	48.56	+2 +8	8.47	41.11	-3 + 6	*)6.25	30.90	-2 - 8
5	17.94	51.51	. +4 + 2	12.72	48.38	+1 +11	8.36	40.80	<b>-3</b> + 1	6.22	30.53	-1 -11
6	17.76	51.48	+3 + 6	12.55	48.20	-1 +11	8.25	40.49	-3 - 5	6.20	30.16	0 -11
7	17.58	51.44	+2 +10	12.39	48.01	-2 + 8	8.14	40.18	-2 - 9	6.17	29.79	+2 - 9
8	17.40	51.40	0 +11	12.23	47.82	-3 + 4	8.04	39.87	0 —11	6.15	29.42	+2 - 6
9	17.22	51.35	<b>-2</b> +10	12.07	47.63	-3 - 2	7.93	39.56	+1 -11	6.13	29.05	+2 - I
10	17.04	51.30	-3 + 7	11.91	47.44	-2 - 7	7.83	39.24	+2 - 8	6.12	28.68	+2 + 3
II	16.86	51.25	-3 + 2	11.75	47.24	-I -IO	7.74	38.92	+3 -4	6.11	28.31	+1 + 6
12	16.69	51.18	-3 4	11.59	47.03	0 -11	7.64	38.59	+2 0	6.10	27.94	0 + 8
13	16.51	51.12	-2 - 8	11.44	46.82	+1 -ro	7-55	38.27	+1 +4.	6.09	27.57	-2 + 9
14	16.33	51.05	-1 -11	11.29	46.60	+2 - 7	7.46	37.93	0 + 7	6.09	27.20	-2 + 7
15	16.15	50.97	+1 -11	11.14	46.38	+2 - 3	7.37	37.60	-1 + 9	6.09	26.83	-3 + 5
16	15.98	50.89	+2 - 9	10.99	46.15	+2 + 2	7.29	37.26	-2 + 8	6.ìo	26.46	-3 + 1
17	15.80	50.80	+2 - 5	10.84	45.92	+r + 6	7.21	36.93	-3 + 7	6.11	26.09	-2 - 2
18	15.62	50.71	+2 - I	10.69	45.69	0 + 8	7.12	36.59	-3 + 4	6.11	25.72	-1 - 5
19	15.44	50.61	+1 +4	10.55	45-45	-r + 9	7.05	36.25	-3 o	6.13	25.35	.0 - 8
20	15.27	50.51	0 + 7	10.40	45.21	-2 + 8	6.97	35.90	-2 - 4	6.14	24.99	+2 - 9
21	15.09	50.40	_r + 8	10.26	44.96	-3 + 6	6.90	35.56	-ı - 6	6.16	24.62	+3 -8
22	14.92	50.29	-2 + 8	10.12	44.71	-3 + 2	6.83	35.21	<b>+1</b> − 8	6.18	24.26	+4 - 5
23	14.74	50.17	-2 + 7	9.98	44.46	-2 - I	6.77	34.86	+2 - 9	6.21	23.89	+4 - 1
24	14.57	50.05	-3 + 4	9.85	44.20	-2 - 5	6.71	34.51	+3 - 7	6,24	23.53	+4 + 4
25	14.40	49.92	-3 + 1	9.71	43.94	0 - 7	6.65	34.15	+4 - 3	6.27	23.17	+3 + 8
-2.6	14.23	49.79	<b>-2</b> - 3	9.58	43.67	+1 ÷ 8.	6.60	33.79	+4 + 1	6.31	22.81	+1 +11
27	14.06	49.65	-ı — 6	9.45	43.40	+2 - 8	6.54	33.44	+3 + 6	6.35	22.45	-I +I2
28	13.89	49.51	0 - 8	9.32	43.13	+3 - 6	6.49	33.08	+2 + 9	6.39	22.09	-2 + 9
29.	13.72	49.36	+2 - 9	9.19	42.85	+4 - 2	6.44	32.72	· 0 +11	6.43	21.73	-3. + 5.
30	13.55	49.21	+3 - 8	9.06	42.57	+4 + 3	6.40	32.36	-2 +10·	6.48	21.38	-4 - I
31	13.38	49.06	+4 - 4	8.94	42.29	+3 + 7	6.36	32.00	-3 + 7	6.53	21.03	-3 - 6
32	1800	5 2 8 7		8.82	42.00	+1 +10	0 14 TE		TAR STREET	6.58	20.68	<u>-2</u> -10
			1 200 2 1			10."	16	, T			-   +m 5	

 $\alpha_{1947.0} = 16^{11} 51^{11} 19.33$ 

 $\delta_{1947.0} = +81^{\circ} 7' 39''35$ 

<sup>\*)</sup> Tag der doppelten unteren Kulmination: Dez. 4.

Obere Kulmination Greenwich

Nh) 8	Urs	sae m	inoris	4 <sup>m</sup> 44
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		Janua	r		Februa	ır		März			April	100
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
	28 JW	+	in	1300	-	in	1	-1-	in	1	Z 4 X	in
	17 <sup>h</sup> 49 <sup>m</sup>	86° 3 <b>6′</b>	0.01 0.01	17 <sup>h</sup> 49 <sup>m</sup>		10.01	17 <sup>h</sup> 49 <sup>m</sup>	86° 36′	0.01 0.01	17 <sup>h</sup> 49 <sup>m</sup>	86° 3 <b>6′</b>	10.01
I.	0.28	30.88	+9-7	8 4.2I	20.94	+7+9	12.40	15.31	+ 4 +10	23.41	14.59	-10 + I
2	0.30	30.53	+11 - 3	4.44	20.67	+ 2 +10	12.75	15.19	- I +IO	23.76	14:67	-10 - 4
3	0.33	30.17	+11 + 2	4.68	20.40	- 3 +10	13.09	15.08	-6 + 8	24.10	14.75	-8 - 8
4	0.37	29.83	+9+6	4.92	20.14	-8 + 7	13.44	14.97	-9+4	24.44	14.84	-4-10
5	0.41	29.48	+4+9	5.16	19.89	-10 +·2	13.79	14.87	-10 <del>-</del> 1	24.77	14.94	0-10.
6	0.46	29.13	- I +IO	5.41	19.63	II 3	14.14	14.77	- 9 - 6	25.11	15.04	+3-9
7	0.52	28.79	-6+9	5.67	19.39	-9-7	14.49	14.69	7 - 9	25.44	15.14	+5-5
8	0.59	28.45	-10 + 5	5.93	19.15	<b>−</b> 6 <b>−</b> 10	14.85	14.61	- 3 -11	25.77	15.26	+6-i
9	0.66	28.10	-11 · o	6.20	18.91	- 2 -II	15.20	14.53	+ 1 -10	26.10	15.37	+ 6 + 3
.10	0.74	27.77	-II - 5	6.48	18.68	+2-9	15.56	14.46	+4-7	26.42	15.50	+4+6
II	0.83	27.43	-8-9	6.76	18.45	+ 5 - 6	15.92	14.40	+6-4	26.74	15.63	+ 2 + 8
12	0.92	27.09	- 4 -II	7.04	18.23	+ 6 - 2	16.28	14.35	+ 6 + 1	27.06	15.76	-1+9
13	1.02	26.76	0 -10	7.32	18.01	+ 6 + 2	16.64	14.30	+ 5 + 5	27.38	15.90	-4 + 8
14	1.13	26.42	+ 3 - 8	7.61	17.80	+ 4 + 6	17.00	14.26	+ 3 + 8	27.69	16.05	-6+6
15	1.24	26.09	+ 5 - 4.	7.90	17.59	+ 2 + 8	17.36	14.22	0 +- 9	28.00	16.20	- 6 + 2 ·
16	1.36	25.77	+6 0	8.20	17.39	-1+9	17.72	14.19	-2+9	28.30	16.35	-6-2
17.	1.49	25.44	+ 5 + 4	8.51	17.20	-3 + 8	18.08	14.17	-5 + 7	28.60	16.51	-4-6
18	1.63	25.12	+4+7	8.81	17.01	-5+6	18.44	14.15	-6+4	28.89	16.68	- r - 8
19	1.77	24.80	+ 1 + 9	9.12	16.83	-6 + 3	18.80	14.14	-7 + 1	29.18	16.85	+ 3 - 9
20	1.92	24.48	- r + 9	9.44	16.65	- 6 - I	19.16	14.14	-6 - 3	29.47	17.03	+7-8
21	2.08	24.17	-4 + 8	9.76	16.47	-5-5	19.52	14.14	-3-7	29.75	17.22	+10 - 5
. 22	2.24	23.86	-5+5	10.08	16.30	-2-7	19.88	14.15	0 - 9	30.03	17.41	+11 - 1
23	2.41	23.55	-6 + 2	10.40	16.14	+2-9	20.24	14.16	+4-9	30.31	17.60	+10 +,4
24	2.58	23.24	- 6 2	10.72	15.99	+6-9	20.60	14.18	+ 8 - 7	30.58	17.79	+6+8
25	2.76	22.94	-4-6	11.05	15.84	+ 9 - 6	20.96	14.21	+10 - 4	30.85	17.99	+ 2 +10
26	2.95	22.64	0 - 8	11.38	15.69	+11 - 2	21.31	14.25	+10 + 1	31.11	18.20	- 3 +10
27	3.15	22.35	+4-9.	11.72	15.56	+10 + .3	21.67	14.29	+9+5	31.37	18.41	-7 + 8
28	3-35	22.06	+8-8	12.06	15.43	+8 + 7	22.02	14.33	+ 5 + 9	31.62	18.62	-10 + 3
29	3.55	21.78	+10 - 5	12.40	15.31	+ 4 +10	22.37	14.39	0 +10	31.86	18.84	-II - 2
30	3-77	21.50	+11. 0				22.72	14.45	-4+9	32.10	19.07	<b>-</b> 9 - 6
31	3.99	21:22	±10 + 4	1000	1		23.07	14.52	-8 + 6	32.34	19.30	- 6 -io
32	4.21	20.94	+7+9	100	272		23.41	14.59	-ro + r	17,189		
Selve	STATE OF	SP(\$ 4515)	35-11-313	301390	With the same	AND 32 40	Massey.	9/00/202	9999	AVERA NET	1.01192	Della Section

 $\alpha_{1947.0} = 17^h \cdot 49^m \cdot 16.63$ 

 $\delta_{1947.0} = +86^{\circ} 36' 37''62$ 

Nh)	8	Ursae	minoris	4 <sup>m</sup> 44
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Tag		Mai			Juni	Six Est		Juli			Augus	t
Lag	AR.	Dekl.	© Glieder	AR.	Dekl.	C Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
900 L	3176	+	in		+	in		+	in		44	in
	17 <sup>h</sup> 49 <sup>m</sup>	86° 36′	0.01 0.01	17 <sup>h</sup> 49 <sup>m</sup>	86° 36′	0.01 0.01	17 <sup>h</sup> 49 <sup>m</sup>	86° 36′	0.01 0.01	17 <sup>h</sup> 49 <sup>m</sup>	86° 36′	10.01
I	32.34	19.30	- 6 -10	36.86	27.84	+6-4	35.33	37.40	+ 1 + 8.	28.10	45.44	- 7 + 4
2	32.57	19.53	- 2 -11	36.91	28.14	+6+1	35.18	37.69	-1 + 9	27.79	45.65	-7 °
3	32.80	19.77	+ 2 - 9.	36.95	28.45	+ 5 + 4	35.02	37.99	-4 + 8	27.47	45.86	-5 - 3
4	33.03	20.00	+5-6	36.99	28.76	+ 3 + 7	34.86	38.28	-6 + 6	27.15	46.06	-3-7
5	33-24	20.25	+ 6 - 2	37.01	29.07	+1+9	34.69	38.57	-6 + 3	26.82	46.26	+ I — 9.
6	33.45	20.49	+6+2	37.03	29.38	-2 + 9	34.52	38.86	- 6 - I	26.49	46.45	+ 5 - 9
7	33.66	20.74	+5+5	37.05	29.69	-4 + 8	34.34	39.14	-4-5	26.16	46.64	+9-7
8	33.86	20.99	+ 3 + 8	37.06	30.00	-6+5	34.15	39.43	- I - 8	25.82	46.83	+11 - 4
9	34.05	21.25	o+9	37.06	30.32	-6 + 2	33.96	.39.71	+ 3 - 9	25.48	47.02	+12 + 1
10	34.24	21.51	-3 + 9	37.05	30.63	- 5 - 2	33.76	39.99	÷ 7 − 9	25.13	47.20	+11 + 6
11	34.42	21.77	-5 + 7	37.04	30.94	-3-6	33.56	40.27	+10 - 6	24.78	47.37	+7+9
12	34.60	22.04	- 6 + 4	37.02	31.26	0 - 9	33.36	40.54	+12 - 2	24.43	47.55	+ 2 +11
13	34.77	22.31	- 6 o	37.00	31.57	+4-9	33.14	40.81	+12 + 3	24.07	47.72	- 3 ÷10
14	34.94	22.58	-5-4	36.97	31.88	+8 - 8	32.92	41.08	+ 9 + 7	23.71	47.88	-7-7
15	35.10	22.85	-2-7	36.93	32.19	+11 - 5	32.70	41.35	+ 5 +10	23.34	48.04	-to + 2
16	35.25	23.13	+2-9	36.89	32.51	4-12 0	32.47	41.61	- I +H	22.98	48.19	-10 - 4
17	35.40	23.41	+6-9	36.84	32.82	+10 + 5	32.23	41.88	-6+9	22.60	48.34	-8 - 8
18	35.54	23.69	+9-7	36.78	33.13	.+7+9	31.99	42.13	-10 + 5	22.23	48.49	- 5 -11
19	35.67	23.97	+11 - 3	36.72	33.44	+ 2 +11	31.74	42.39	-11 - 1	21.85	48.64	- I -II
20	35.80	24.26	+11 + 2	{ 36.65 36.58	33.75 34.06	- 4 + 10 - 8 + 7	31.49	42.64	-ro - 6	21.47	48.78	+ 3 - 9
21	35.92	24.55	+8+6	36.50	34.37	-11 + 2	31.23	42.90	- 7 -10	21.09	48.91	+ 5 - 5
22	36.04	24.84	+ 4 +10	36.41	34.68	-II - 3	30.97	43.14	- 3 -II	20.71	49.04	+6 0
23	36.15	25.13	- I +II.	36.31	34.98	-9 - 8	30.71	43.39	+ 1 -10	20.32	49.17	+ 5, + 4
24	36.26	25:42	-6+9	36.21	35.29	— 6 —io	30.44	43.63	+4-7	19.93.	49.29	+2+7
25	36.36	25.72	-10 + 5	36.11	35.59	- 2 -11	30.16	43.87	+ 5 - 3	19.54	49.40	0+9
26	36.45	26.02	-II 0	35.99	35.90	+2-9	29.88	44.10	+ 5 + 1	19.14	49.51	-3+9
27	36.53	26.32	-10 - 5	35.87	36.20	+ 5 - 5	29.60	44.33	+4+5	18.74	49.62	-5+7
28	36.61	26.62	-8 - 9	35.74	36.50	+ 6 - I	29.31	44.56	+ 2 + 8	18.34	49.72	-7 + 5
29	36.69	26.92	- 4 -II	35.61	36.80	+ 5 + 3	29.01	44.78	- r + 9	17.94	49.82	-7+2
30	36.75	27.22	0 -10	35.47	37.10	+ 3 + 6	28.71	45.00	-4+8	17.53	49.91	-6-2
31	36.81	27.53	+4-8	35.33	37-40	+ 1 + 8	28.41	45.22	- 6+ 7	17.12	50.00	-4-6
32	36.86	27.84	+6-4	00 00	1.30		28.10	45.44	-7 + 4	16.71	50.09	- r - 8
		3 3 3 4 1	T 9.				1 393	30 / 32	UE 18 18 12 12	148949	1 , 6	

			8					
486° 36′ 10′′	16.875	+16.846	+86° 36′ 30′′	16.903	+16.873			
20	16.889	+16.860	40	16.917	+16.887	60	16.945	+16.915

 $<sup>\</sup>alpha_{1947.0} = 17^{h} 49^{m} 16.63$ 

Obere Kulmination Greenwich

	Nh	8	Ursae	minoris	4 <sup>m</sup> 44
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2	14th) o disae minors 4.44											
Tag	September September			Oktober			November			Dezember		
1 " 5	AR.	Dekl.	© Glieder	AR,	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
		+	in		+	in	1355	+	in	775 S.	+	in
	17 <sup>h</sup> 49 <sup>m</sup>	86° 36′	10.01	17 <sup>h</sup> 48 <sup>m</sup>	86° 36′	0.01 0.01	17 <sup>h</sup> 48 <sup>m</sup>	86° 36′	0.01 0.01	17 <sup>h</sup> 48 <sup>m</sup>	86° 36′	0.01 0.01
1	16.71	50.09	- 1 - 8	63.89	50.39	+9-7	51.44	46.07	+7+9	42.84	37.97	-6+9
2	16.30	50.17	+ 3 - 9	63.47	50.32	+11 - 3	51.08	45.86	+ 2 +11	42.64	37.65	- 9 + 5
3	15.88	50.24	+7 - 8	63.04	50.25	+11 + 2	50.73	45.64	: - 3 +10	42.45	37-33	-11 - 1
4	15.47	50.31	+10 - 5	62.61	50.17	+9+6	50.38	45.41	$-7 \pm 7$	42.26	37.01	-10 - 6
.5	15.05	50.38	+12 1	62.19	.50.09	+ 5 +10	50.04	45.18	-10 + 3	42.08	36.68	<b>-7-9</b>
6	14.63	50.44	+11 + 3	61.76	50.00	+ 1 +11	49.70	44.95	-IO - 2	41.91	36.35	- 3 -11
7	14.21	50.49	+8+8	61.34	49.91	-4+9	49.36	44.72	-8-7	41.74	36.02	+ 1 -10
8	13.79	50.54	+ 4 +10	60.92	49.81	-8+6	49.03	44.48	- 5 -IO	41.58	35.69	+4-7
9	13.36	50.59	- 1 +11	60.49	49.71	-10 + I	48.70	44.24	- 1 -11	41.42	35.35	+6-3
10	12.94	50.63	-6 + 8	60.08	49.61	-9-5	48.38	43.99	+3-9	41.28	35.02	+6+1
11	12.52	50.67	-8 + 4	59.66	49.50	-7-9	48.07	43.74	+6-6	41.14	34.68	+ 4. + 5
12	12.09	50.70	-10 - 2	59.24	49.38	- 3 -11	47-75	43.48	+6-1	41.00	34.34	+2+8
13	11.66	50.73	9 - 6	58.83	49.26	+ 1 -10	47.45	43.22	+ 6 + 3	40.88	34.00	-1+9
14	11.23	50.7.5	- 6 -ro	58.42	49.14	+4-8	47.15	42.96	+4+6	40.76	33.65	-4 + 8
15.	10.80	50.77	- 2 -11	58.00	49.01	+6-4	46.85	42.69	+1+9	40.65	33.31	-6+6
.16	10.37	50.78	+ 2 -10	57.60	48.87	+ 6 0	46.56	42.42	-2+9	40.55	32.96	-7 + 3
17	9.94	50.79	+ 5 - 7	57.19	48.73	+ 5 + 5	46.27	42.15	-5 + 8	40.45	32.61	-7 0
18	9.51	50.79	+ 6 - 2	56.78	48.59	+2+8	45.99	41.87	-7+5	40.36	32.27	- 5 - 4
19	9.08	50.79	+ 5 + 2	56.38	48.44	-1+9	45.71	41.59	- 8 + 2	*)40.28	31.92	- 2 - 8
20	8.65	50.79	+4+6	55.98	48.29	- 4 + ·9 ·	45-44	41.31	- 7 <b>-</b> 2	40.20	31:57	+ 1 - 9
21	8.22	50.78	+ 1 + 9	5.5.58	48.13	-6+7	45.18	41.02	-5-6	40.13	31.22	+5-9
22	7.78	50.76	-2+9	55.19	47.96	-7 + 4	44.92	40.73	-1 - 8	40.07	30.87	+9-7
23	7.35	50.74	-5 + 8	54.80	47.80	-7 0	44.66	40.43	+3-9	40.02	30.52	+12 - 4
24	6.92	50.71	-7+6	54.42	47.62	-6 - 3	44.42	40.13.	+7-9	39.97	30.17	+12 + 1
25	6.49	50.68	-7 + 3	54.03	47.44	-3-7	44.18	39.83	±10 — 6	39.93	29.81	+11 + 6
26	6.05	50.64	-7 - 1	53.66	47.26	0-9	43.94	39.53	+12 - 2	39.90	29.46	+ 7 +10
27	5.62	50.60	-5-5	53.28	47.07	+4-9	43.71	39.22	+11 + 3	39.87	29.11	+ 2.+11
28	5.19	50.55	-2 - 8	52.90	46.88	+8 - 8	43.48	38.92	+ 9 + 8	39.86	28.75	- 4 +10
29	4.76	50.50	+ 1 - 9	52.53	46.69	+10 - 4	43.26	38.60	+ 4 +10	39.85	28.40	-8+7
30	4.32	50.45	+ 5 - 9	52.16	46.49	+11 0	43.05	38.29	÷ 1 +11	39.84	28.05	-IO + 2
31	3.89	50.39	+9-7	51.80	46.28	+10 + 5	42.84	37.97	-6+9	39.85	27.70	-rr - 4
32			Jelly Lore	51.44	46.07	+7+9	1000	168		39.86	27.35	-8 - 8.
δ   sec δ   tg δ   δ   sec δ   tg δ   δ   sec δ   tg δ												

8 sec δ tg δ sec δ tg

 $\alpha_{1947.0} = 17^{h} 49^{m} 16.63$ 

 $\delta_{1947.0} = +86^{\circ} 36' 37.''62$ 

<sup>\*)</sup> Tag der doppelten unteren Kulmination: Dez. 19.

Ni	λ	Ursae	minoris	6 <sup>m</sup> 55
2.0/		CIUWO	HILLOTTO	0.77

15.15	Ni) λ Ursae minoris 655											
Tag		Janua	r		Februa	ır		März		April		
1ag	AR.	Dekl.	© Glieder	AR.	Dekl.	C Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
3	a their	+	in		+	in		+	in	SV-58	+	in
	18 <sup>h</sup> 24 <sup>m</sup>	89° 2′	0.01 0.01	18 <sup>h</sup> 24 <sup>m</sup>	89° 2′	0.01 0.01	18 <sup>b</sup> 24 <sup>m</sup>	89° 2′	0.01 0.01	18 <sup>h</sup> 25 <sup>m</sup>	89° 2′	0.01 0.01
I	13.78	52.90	+32 - 9	20.84	42.73	+32 + 7	45.62	36.16	+21 + 9	23.22	33.97	-39 + 3
2	13.63	52.56	+43 - 5	21.46	42.44	+14 +10	46.73	36.00	+ 2 +10	24.45	34.00	-41 - 2
3	13.49	52.22	+45 0	22.11	42.15	- 7 +io	47.86	35.84	-17 + 9	25.68	34.04	-35 - 7
4	13.38	51.87	+39 + 5	22.77	41.87	-26 + 8	48.99	35.69	-32 + 6	26.91	34.08	-22 - 9
5	13.30	51.53	+23 + 9	23.46	41.59	-39 + 4	50.14	35.55	-41. + I	28.13	34.13	- 7 -ro
6	13.24	51.19	+ 3+11.	24.17	41.31	-44 - I	51.29	35.41	-40 - 4	29.35	34.18	+7-9
7	13.21	50.85	-18 + 9	24.90	41.03	-39 - 6	52.46	35.28	-31 - 8	30.56	34.24	+19 - 6
8	13.21	50.51	-35 + 6	25.66	40.76.	-28 - 9	53.63	35.15	-18 -10	31.77	34.3I	+25 - 2
9	13.23	50.16	-45 + 2	26.43	40.49	-13 -10	54.82	35.03	- 2 -IO	32.97	34.38	+25 + 2
10	13.28	49.82	-45 - 3	27.22	40.23	+2-9	56.01	34.92	+11 - 8	34.16	34.46	+20 + 6
II	13.36	49.48	-37 - 7	28.04	39-97	+15 - 6	57.20	34.81	+21 - 4.	35.35	34.54	+12 + 8
12	13.46	49.14	-24 -10	28.87	39.72	+22 - 3	58.41	34.71	+25 0	36.53	34.63	+ 1 + 9
13	13.59	48.81	- 8 -ro	29.72	39.47	+23 + 1	59.62	34.61	+23 + 4	37.69	34.72	-9 + 9
14	13.74	48.47	+7 - 8	30.59	39.23	+20 + 5	60.84	34.52	+17 + 7	38.85	34.82	-18 + 7
15	13 92	48.14	+18 - 5	31.48	38.99	+13 + 8	62.06	34.44	<del>+</del> 7+9	40.01	34.92	<del>-24</del> + 3
16	14.13	47.80	+23 - I	32.39	38.76	+ 3 + 9	63.29	34.36	-4+9	41.15	35.03	-25 - 1
17	14.36	47.47	+22 + 3	33.31	38.53	-8 + 9	64.52	34.29	-14 + 8	42.28	35.15	-19 - 5
18	14.62	47.13	+18 + 6	34.25	.38.30	-17 + 7	65.76	34.23	-22 + 5	43.41	35.27	-8 - 8
19	14.90	46.80	+10 + 9	35.21	38.08	-23 + 4	67.00	34.17	-25 + 2	44-52	35.40	+ 6 -10
20	15.21	46.48	0+9	36.18	37.86	-25 . 0	68.25	34.12	-24 2	45.61	35-53	+21 - 9
21	15.55	46.15	_10 + 8	37:17	37.65	-21 - 4	69.49	34.07	-17 - 6	46.70	35.67	+34 - 7
22	15.91	45.83	-18 + 6	38.18	37.44	-12 - 7	70.74	34.03	-4-9	47.78	35.81	+-41 3
23	16.29	45.51	-23 + 3	39.20	37.24	+2-9	71.99	34.00	+11 -10	48.84	35.96	+39 + 2
24	16.70	45.19	-23 - 1	40.23	37.05	+17 - 9	73.24	33.97	+25 - 8	49.89	36.12	+30 + 7
25	17.13	44.87	-17 - 5	41.28	36.86	+31 - 8	74-49	33.95	+37 - 5	50.92	36.28	+13. +10
26	17.59	44.56	-6 - 8	42.35	36.68	+41 - 4	75.74	33-93	+41 — I	51.94	36.45	- 6 +10
27	18.07	44.25	+ 910	43.42	36.50	+42 + 1	76.99	33.92	+37 + 4	52.95	36.62	-25 + 9
28	18.58	43.94	+25 - 9	44.51	36.33	+36 + 6	78.24	33.92	+25. + 8	53.94	36.79	-38 + 5
29	19.11	43.64	+38 - 7	45.62	36.16	+21 + 9	79.49	33.92	+ 7 +10.	54.92	36.97	<b>-43</b> °
30.	19.66	43.33	+45 - 2				80.73	33.93	-12 +10	55.88	37.15	<b>-40</b> - 5
31	20.24	43.03	+43 + 3	5 122			81.98	33.95	-28 + 7	56.83	37.34	<b>-29</b> - 9
32	20.84	42.73	+32 + 7	2337	A. C.		83.22	33.97	-39 + 3	2/300		
Contract Con		17375		185	0				0   1	12000	505	

 $\alpha_{1947.0} = 18^{h} 25^{m} 13^{s}$ 02

 $\delta_{1947.0} = +89^{\circ} 2' 57.40$ 

Obere Kulmination Greenwich

Ni)	λ	Ursae	minoris	6 <sup>m</sup> 55
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				Ni) A Ursae minoris 6::55								
Tag	100	Mai		100	Juni		Juli			August		
146	AR.	Dekl;	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
100		+	in	200	.+	in		+	in		+	in
	18 <sup>h</sup> 25 <sup>m</sup>	89° 2′	0.01 0.01	18 <sup>h</sup> 26 <sup>m</sup>	89° 2′	10.0	18 <sup>h</sup> 25 <sup>m</sup>	89° 2′	10.0 10.0	18 <sup>h</sup> 25 <sup>m</sup>	89° 3′	0.01 0.01
1	56.83	37.34	-29 - 9	17.19	45.05	+19 - 5	76.85	54.59	+10. + 8	55.54	3.43	-24.+.5
2	57.76	37.53	-13 -10	17.52	45.34	+23 - I	76.47	54.89	0+9	54.55	3.68	-26 + 1
3	58.68	37.73	+ 1 -10	17.83	45.64	-1-23 + 3	76.08	55.20	-10 + 8	53.53	3.93	-23 - 3
4	59.58	37.93	+15 - 7	18.12	45.93	+17 + 6	75.66	55.51	-18 + 7	52.50	4.18	-15 - 6
5	60.46	38.14	+23 - 3	18.38	46.23	+8+8	75.22	55.81	-23 + 4	51.45	4.42	<b>- 2 - 9</b>
6	61.33	38.35	+25 + 1	18.62	46.53	-2+9	74.76	56.12	-24 o	50.38	4.66	+13 -10
7	62.18	38.56	+23 + 5	18.83	46.83	-12 + 8	74.28	56.42	-20 - 4	49.30	4.89	+29 - 9
8	63.02	38.78	+15 + 7	19.03	.47.14	-19 + 6	73.78	56.73	-10 - 7	48.20	5.12	+42 6
9	63.83	39.00	+ 6. + 9	19.20	47.44	-24 2	73.25	57.03	+ 5 - 9	47.09	5.35	.+48 — ı
10	64.63	39.23	-5+9	19.35	47.75	-23 - 2	72.71	57.33	+21 -10	45.96	5.57	+46 + 4
11	65.41	39.46	-15 + 7	19.47	48.06	<u>-16</u> − 6	72.14	57.63	+37 - 8	44.82	5.79	+34 + 8
12	66.17	39.69	-21 + 5	19.58	48.37	-4-9	71.55	57.93	+47 - 4	43.66	6.01	+16 +10
13	66.91	39.93	-24 + 1	19.66	48.67	+12 -10	70.94	58.23	+48 + 1	42.48	6.22	- 6 +10
14	67.64	40.17	-21 - 3	19.71	48.98	+28 - 9	70.31	58.52	+41 + 6	41.29	6.43	-25 + 8
15	68.34	40,42	-12 - 7	19.75	49.29	+41 - 7	69.66	58.81	+25 +10	40.08	6.64	-38 + 3
16	69.02	40.67	+1-9	19.76	49.60	+47 - 2	68:98	59.10	+ 4 +11	38.86	6.84	-42 - 2
17	69.69	40.92	+17 -10	19.75	49.91	+44 + 3	68.29	59.39	-18 +10	37.63	7.04	-37 - 7
18.	70.33	41.17	+32 - 8	19.71	50.23	+32 + 8	67.57	59.68	-35 + 6	36.38	7.23	-25 -10
19	70.96	41.43	+42 - 4	19.66	50.54	+13 +10	66.84	59.96	-44 + I	35.12	7.42	- 9 -II
20	71.56	41.69	+44 0	19.58	50.85	- 9. +11	66.09	60.24	<del>-44 - 4</del>	33.84	7.61	+6-9
21	72.15	41.96	+36 + 5	19.48	51.16	-29 + 8	65.31	60.52	-33 - 8	32:55	7.79	+17 - 5
22	72.72	42.23	+22 + 9	19.35	51.47	-42.+4	64.52	60.80	-20 -ro	31.25	7.97	+22 - 1
23	73.26	42.50	+ 2 +11	19.20	51.79	+46 − r	63.70	61.08	- 4 -10	29.94	8.15	+20 + 3
24	73.79	42.78	-19 +10	19.03	52.10	-42 - 6	62.87	61.35	+10 - 8	28.62	8.32	.+14 + 7
25	74.29	43.05	-36 + 7	18.84	52.41	-29 - 9	62:02	61.62	+19 - 4	27.28	8.49	+ 4 + 9
26	74.77	43.33	-44 + 2	18.62	52.72	-13 -10	61.15	61.88	+21 0	25.93	8.65	-7.+9
27	75.23	43.61	<del>-44</del> − 3	18.38	53.03	+ 2 - 9	60.26	62.15	+18 + 4	24.57	8.81	-17 + 8
28	75.66	43.90	-36 - 7	18.12	53.35	+15 - 6	59-35	62.41	+11 + 7	23.20	8.97	-24 + 6
29	76.08	44.18	-22 -10	17.84	53.66	$\begin{vmatrix} +21 - 2 \\ +22 + 2 \end{vmatrix}$	58.43	62.67	+1+9	21.82	9.12	<b>-28</b> + 3
- 30:	76.47	44-47	- 6 <del>-</del> 10	17.20	54.28	+18 + 6	57.49	62.93	- 9 + 9 <sup>-</sup>	20.43	9.27	-26 - I
31	76.84	44.76	+ 9 - 8	16.85	54.59	+10 + 8	56.52	63.18	-18 + 7	19.02	9.41	-20 - 5
32	77.19	45.05	+19 - 5	2 1 1 S	1000	To The State of	55-54	63.43	-24+5	17.61	9-55	-9-8
1	6			No. of Street, or other teams,				08 SO-			C 12 12 1	AUGUSTO)

 $\alpha_{1947.0} = 18^{h} 25^{m} 13.02$ 

 $\delta_{1947.0} = +89^{\circ} 2' -57''40$ 

Mi)	Treas	minoris	6m

3000					Ni) λ	Ursae mi	ninoris 655						
Tag		Septemb	oer		Oktobe	r		Novemb	er	Dezember			
1,48	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	- AR.	Dekl.	© Glieder	
3		+	in	RE 35	+	in		+	in		+	in	
	18 <sup>h</sup> 24 <sup>m</sup>	89° 3′	10.01	18 <sup>h</sup> 23 <sup>m</sup>	89° 3′	0.01 0.01	18 <sup>h</sup> 23 <sup>m</sup>	89° 3′	0.01 0.01	18 <sup>h</sup> 22 <sup>m</sup>	89° 2′	10.01	
1	77.61	9.55	-9 - 8	92.02	11.60	+30 - 8	44.85	9.11	+32 + 8	68.92	62:42	-18 +10	
2	76.19	9.69	+6-9	90.45	11.60	+40 - 4	43.44	8.95	#15 +10	68.00	62.14	-34 + 6	
3	74.76	9:82	+22 - 9	88.88	11.59	+44 0	42.05	8.79	- 5 +11	67.10	61.85	-43 + 1	
4	73-32	9.95	+36 - 7	87.31	11.57	+39 + 5	40.66	.8.62	-24 + 8	66.22	61.56	-42 - 4	
5	71.87	10.07	+44 - 3	85.73	11.55	+27 + 9	39.29	8.45	-36 + 4	65.36	61.27	-32 - 8	
6	70.41	10.19	+46 + 2	84.16	11.53	+ 9 +11	37.93	8.27	-41 - 1	64.53	60.97	-17 -10	
7	68.94	10.30	+38 + 7	82.59	11.50	-11 +10	36.58	8.09.	-36 - 6	63.72	60.67	<u> </u>	
8.	67.46	10.41	+23 +10	81.02	11.47	-27 + 7	35.25	7.90	-25 - 9	62.93	60.37	+13 - 8	
9	65.98	10.51	+ 3 +11	79.46	11.43	-37 + 2	33.93	7.71	-10 -11	62.17	60.06	+22 - 4	
10	64.49	10.61	-17 + 9	77.89	11.38	-39 - 3	32.62	7.51	+ 6 -10	61.42	59.76	+24 0	
ΊΙ	62.99	10.71	-31 + 5	76.33	11.33	-32 - 8	31.33	7.31	+18 - 6	60.70	59.45	+20 + 5	
12	61.48	10.80	-39 0	74.77	11.27	-19 -10	30.05	7.10	+24 - 2	60,00	59.14	+11 + 8	
13	59.97	10.88	-38 - 5	73.22	11.21	- 310	28.79	6.89	+24 + 2	59-33	58.82	0.+9	
14	58.45	10.96	-28 - 9	71.67	11.15	+12 - 9	27.54	6.68	+18 + 6	58.68	58.51	-11 + 9	
15	56.93	11.04	-14 -IT	70.13	11.08	+21 - 5	26.30	6.46	+8+9	58.05	58.19	-21 + 7	
· 16	55-40	II.II	+ 2 -10	68.59	11.00	+25 0	25.08	6.24	-3+9	57.45	57.87	-26 -1-4	
17	53.87	11.18	+15 - 7	67.05	10.92	+22 + 4	23.87	6.01	-15 + 9	56.88	57.55	-28 + 1	
18	52.33	11.24	+22 - 3	65.52	10.84	+14 + 7	22.69	5.78.	-23+6	56.33	57.22	-24 - 3	
19	50.79	11.30	+23 + 1	63.99	.10.75	+ 3 + 9	21.52	5.54	-28 + 3	. 55.80	56.90	-15 - 7	
20	49.24	11.35	+187+6	62.47	10.65	-8 + 9	20.36	5.30	-27 - 1.	55.30	56.57	-1-6	
21	47.69	11.40	+ 9 + 8	60.96	10.55	-19 + 8	19.23	5.06	<b>-21</b> - 5	54.82	56.24	+15 -10	
22	46.13	11.44	-2+9	59.45	10.44	-26 + 5	18.12	4.81	-ro - 8	54.37	55.91	+329	
23	44.57	11.48	-13+9	57.95	10.33	-29 + I	17.02	4.56	+ 5 -10	53.94	55.58	+44 - 6	
24	43.01	11.51	-23 + 7	56.46	10.22	-26 - 2	15.94	4.31	+21 -10	53.54	55.24	+49 - 1	
25	41.44	11.54	-28 + 4	54.98	10.10	-18 - 6	14.88	4.05	+36 - 8	53.17	54.91	+46 + 4	
26	39.88	11.56	-28 o	53.51	9.97	- 5 - 9	1.3.84	3.79	+45 - 4	52.82	54.57	+33 + 9	
. 27	38.31	11.58	-24 - 4	52.04	9.84	+10 -10	12.82	3.52	+46 + 1	52.50	54.23	+14 +11	
28	36.74	11.59	-14 - 7	50.58	9.70	+25 - 9	11.81	3.25	+38 + 6	*)52.20			
29	35.17	11.60	-1-9	49.13	9.56	+37 - 6		2.98	+23 ±10	51.93	53.55	-27 + 8	
30	33.59	11.60	+15 -10	47.79	9.41	+44 - 2	9.86	2.70	+ 3 +11	51.68	53.21	-40 + 3	
31	32.02	11.60	+30 - 8	46.27	9.26	The second second	THE STATE OF THE STATE OF	2.42	-18.+10	51.46	52.87	320 00000000000000000000000000000000000	
32	17/2/-	18.86		44.85	9.11	+32 + 8			13 20 3	51,27	52.53	-38-7	

 $\delta_{1947.0} = +89^{\circ} 2' 57.40^{\circ}$ 

 $<sup>\</sup>alpha_{1947.0} = 18^{h} 25^{m} 13^{s}_{02}$ 

<sup>\*)</sup> Tag der doppelten unteren Kulmination: Dez. 28.

	Nk)	76	Draconis	5 m69
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Nk) 76 Draconis 559												
Там		Janua	r		Februa	ır	172.60	März		April		
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
	1700	4	in	32000	4	in	2000	+	in	35,348	+ .	in
	20 <sup>h</sup> 46 <sup>m</sup>	82° 20′	10.0 10.0	20h46m	82° 19′	0.01 0.01	20 <sup>h</sup> 46 <sup>m</sup>		0,01 0,01	20 <sup>h</sup> 46 <sup>m</sup>	82° 19′	10.01
194	24.68	16.82	0 —12	22.77	67.18	+4 + 2	23.61	58.08	+4 + 5	27.02	50.92	-2 + 8
I 2	24.58	16.55	+1 -10	*)22.76	66.84	+4 + 6	23.69	57.79	+3 +8	27.16	50.92	-2 + 8 -3 + 4
COLUMN TO SERVE	24.48	16.28	+3 - 7	22.75	66.51	+3 +10	23.77	57.50	+1 +10	27.30	50.62	-4 - I
3	24.38	16.00	+4 - 1	22.74	66.17	0 +10	23.85	57.21	-1 + 9	27.44	50.48	-4 - 5
5	24.28	15.72	+4 + 4	22.74	65.83	-2 + 9	23.93	56.92	-3 + 6	27.58	50.35	-3 - 7
J.		-3-1-		1000	300			30000	7.33		1937	
6	24.19	15.44	+3 +8	22.74	65.49	-3 + 5	24.01	56.64	-4 + 2	27.73	50.23	-2 - 8
7	24.10	15.15	+1 +11	22.75	65.16	-4 + I	24.10	56.36	-4 - 2	27.87	50.11	0 - 7
8	24.01	14.86	-ı +ıo	22.75	64.82	-5 - 4	24.19	56.09	-4 - 6	28.02	50.00	+1 - 5
9	23.92	14.57	-3 + 8	22.77	64.49	<del>-4 - 7</del>	24.28	55.82	-3 - 8	28.17	49.89	+2 - 2
10	23.84	14.27	-4 + 4	22.78	64.15	-3 - 8	24.38	55.56	-r <b>-</b> 8	28.33	49.79	+3 + 2
11	23.76	13.97	-5 - I	22.80	63.81	-I - 7	24.48	55.30	0 - 6	28.48	49.70	+3 + 5
12	23.68	13.67	1 -4 - 5	22.81	63.48	+1 - 5	24.58	55.04	+2 - 3	28.63	49.61	+3 + 8
13	23.60	13.36	-3 - 7	22.84	63.14	+2 - 2	24.68	54.79	+3 0	28.78	49.52	+2 + 9
14	23.53	13.06	-2 - 8	22.86	62.81	+3 + 2	24.78	54.54	+3 + 4	28.93	49.45	+1 + 8
15	23.46	12.75	0 - 6	22.89	62.48	+3 + 5	24.89	54.29	+3 + 7	29.09	49.38	-r + 6
-6					6		art to				40.57	
16	23.40	12.43	+1 - 4	22.92	62.15	.+3 + 7	25.00	54.05	+3 + 8	29.24	49.31	-2 + 2.
17	23.33	12.12	+2 - 1	22.96	61.83	+2 + 8	25.11	53.82	+1 +9	29.40	49.25	-3 - 2
18	23.28	1-1.80	+3 + 3	23.00	61.50	+1 +8	25.22	53.59	0 + 7	29.55	49.20	-3 - 6
19	23.22	11.48	+3 + 6 +3 + 7	23.04	60.86	0 + 7 -2 + 4	25.34	53.36	-1 + 5 -2 + 1	29.71	49.16	-3 - 9
20	23.11	11.10	73 7	23.09	00.80	2 7 4	25.45	53.14		29.07	49.12	CENTRAL S
21	23.12	10.83	+2 + 8	23.13	60.54	-3 0	25.58	52.93	-3 - 3	30.03	49.09	0 -10
22	23.07	10.51	0 + 8	23.18	60.22	-3 - 4	25.70	52.72	-3 - 7	30.19	49.06	+2 - 8
23	23.03	10.18	-1 + 5	23.23	59.91	-3 - 8	25.82	52.51	,—2 —IO	30.35	49.04	+3 - 4
24	22.98	9.86	-2 + 2	23.29	59.60	-2 -10	25.95	52.31	-I -II	30.50	49.03	+4 + 2
25	22.95	9.53	-3 - 2	23.35	59.29	0 -11	26.08	52.12	+1 - 9	30.66	49.02	+4 + 6
26	22.91	9.20	-3 - 6	23.41	58.99	+2 - 9	26.21	51.93	+3 - 6	30.82	49.02	+3 +10
27	22.88	8.87	<b>-2</b> -10	23.47	58.68	+3 - 5	26.34	51.75	+4 - 2	30.98	49.02	+1 +11
28	22.85	8.53	-I -II	23.54	58.38	+4 0	26.47	51.57	+4 + 4	31.14	49.03	-ı + 9
29	22.83	8.20	+1 -11	23.61	58.08	+4 + 5	26.60	51.40	+3 + 8	31.30	49.05	-3 + 6
30	22.81	7.86	+2 - 8	2 10	4208	N. Wilde	26.74	51.23	+2 +10	31.46	49.08	-4 + I
		73.3				THE SERVICE	100					
3Ī	22.79	7.52	+4 - 4	1000		100	26.88	51.07	0 +10	31.62	49.11	<b>-4</b> - 3
32	22.77	718	+4 + 2.	P. P. Carlo	1000		27.02	50.92	-2 + 8	10000	1-14-60	
			1 01	City Control		2000 1000		The same		1000	1	

δ	sec 8	tg δ	8	sec 8	tg δ	δ	sec 8	tg 8
+82° 19′ 40′′	7-490	+7.423	+82° 20′ 0′′	7.496	+7.429	+82° 20′ 10′′	7.498	+7.431
50	7.493	+7.426	IO	7.498	+7.431	20	7.501	+7.434

 $<sup>\</sup>alpha_{1947.0} = 20^{h} 46^{m} 32.87$ 

$$\delta_{1947.0} = +82^{\circ} 20' 12."37$$

<sup>\*)</sup> Tag der doppelten unteren Kulmination: Febr. 2.

Obere Kulmination Greenwich

Nk) 76 Draconis 5.69												
Too		Mai			Juni		Juli			August		
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
Ser hi	0.3.78	+	in		+	in	1203	+	in	NO ASS	+	in
	20 <sup>h</sup> 46 <sup>m</sup>	82° 19′	10.0	20 <sup>h</sup> 46 <sup>m</sup>	82° 19′	0.01 0.01	20 <sup>h</sup> 46 <sup>m</sup>	82° 20′	10.0 10.01	20 <sup>h</sup> 46 <sup>m</sup>	82° 20′	0.01 0.01
I	31.62	49.11	-4 - 3	36.17	52.93	0 - 7	39.11	0.97	+3 + 2	39.84	11.64	+1 + 9
2	31.78	49.14	-4 - 6	36.30	53.14	+1 -4	39.17	1.20	+3 + 5	39.82	12.00	0 + 7
	31.94	49.14	-3 - 8	36.42	53.35	+2 0	39.23	1.61	+3 + 8	139.80	12.36	-1 + 5
3 4	32.10	49.23	-r - 8	36.55	53.57	+3 + 3	39.29	1.94	+2 +8	39.78	12.71	$\begin{bmatrix} -2 + 1 \\ -3 - 3 \end{bmatrix}$
5	32.26	49.28	+1 - 6	36.67	53.79	+3 + 6	39.29	2.26	+1 + 8	39.73	13.43	-3 - 7
3	32.20	49.20		30.07	53.19	13	39.34	2.20		39.12	13.43	3 /
6	32.41	49-34	+2 - 3	36.79	54.02	+3 +8	39.40	2.59	0 + 6	39.69	13.78	-2 -10
7	32.57	49.41	+3 + 1	36.91	54.25	+2 + 8	39.45	2.92	-2 + 3	39.66	14.14	-I -I2
- 8	32.72	49.48	+3 + 4	37.02	.54.49	0 + 8	39.49	3.25	-3 - 1	39.62	14.49	+1 -11
9	32.88	49.56	+3 + 7	37.14	54.73	-1 + 5	39.54	3.59	-3 - 5	39.58	14.85	+3 -8
10	33.03	49.65	+2 + 8	37.25	54.98	-2 + 2	39.58	3.93	-2 - 9	39.54	15.20	. +4 - 3
II	33.18	49.74	+1 +8	37.36	55.23	-3 - 3	39.62	4.27	-I -I2	39-49	15.55	+5 + 2
12	33.33	49.84	0 + 7	37.47	55.48	-3 - 7	39.66	4.60	0 -12	39.44	15.91	+4 + 7
13	33.49	49.94	-1 +4	37.58	55.74	_2 _10	39.69	4.95	+2 -10	39.39	16.26	+3 +10
14	33.64	50.04	-2 o	37.69	56.00	-I -I2	39.72	5.29	+3 - 6	39.34	16.61	+1 +10
15	33.79	50.16	-3 - 4	37.79	56.26	+1 -11	39.75	5.63	+5 - r	39.28	16.96	-2 + 8
	33.13	J					35.13			39.20	34340	
16	33.94	50.28	-3 - 8	37.89	56.53	+3 - 8	39.78	5.98	+4 + 5	39.22	17.31	4 +- 4
17	34.09	50.40	-2 -11	37.99	56.80	+4 - 3	39.80	6.33	+3 + 9	39.16	17.65	-5 - 1
18	34.23	50.53	0 -12	38.08	57.08	+4 + 2	39.83	6.67	+2 -111	39.10	18.00	-5 - 5
19	34.38	50.67	+1 -10	38.17	57-36	+4 + 7	39.84	7.03	-1 +10	39.04	18.35	-4 - 8
20	34.53	50.81	+3 - 6	38.26	57.65	+2 +10	39.86	7.38	-3 + 7	38.97	18.69	-2 - 8
21	34.67	50:96	+4 - 1	38.35	57-94	0 +11	39.87.	7.73	-4 + 3	38.90	19.03	0 - 7
22	34.82	51.11	+4 + 5	38.44	58.22	-2 + 9	39.88	8.08	-5 - 2	38.82	19.37	+1 -4

tg 8 tg 8 8 sec 8 sec 8 tg 8 sec 8 +82° 19′ 40′′ 0" +82° 20' +82° 20′ 20′″ +7:423 7.496 +7.429 7.501 +7.434 7.490 +7.426 7.498 +7.431 7.504 +7.437 50 7-493

-5 + 1

+1 - 5

+2 - I

+3 + 2

39.89

39.90

39.90

39.90

39.90

39.89

39.88

39.87

39.86

39.84

8.43

8.79

9.14

9.50

9.85

10.21

10.57

10.93

11.29

11.64

-4 - 6

-3 - 8

-1 - 8

0 - 5

+2 - 2

+3 + 1

+3 + 5

+3 + 7

+2 + 9

+1 + 9

38.75

38.67

38.59

38.51

38.42

38.33

38.24

38.15

38.06

37:96

19.71

20.05

20.39

20.72

21.05

21.38

21.71

22.03

22.36

22.68

+2 0

+3 + 4

+3 + 7

+2 + 9

+1 + 9

-3 - 2

-3 - 6

0 + 8

+ 6

a1947.0 = 20h 46m 32587

38.52

38.60

38.68

38.76

38.83

38.90

38.97

39.04

39.11

58.52

58.81

59.11

59.41

59.72

60.03

60.34

60.66

60.97

34.96

35.10

35.24

35.38

35.51

35.65

35.78

35.91

36.04

36.17

23

24

25

26

27

28

29

30

31

32

51.27

51.43

51.60

51.77

51.95

52.14

52.33

52.53

52.73

52.93

+3. + 9

+2 +11

-r +11

-3 + 8

-4 + 3

-5 - 1

-4 - 5

-3 - 8

-2 - 8

0 - 7

 $\delta_{1947.0} = +82^{\circ} 20' 12''37$ 

Nk)	76	Draconis	5.69
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PARE		18.00		14.K) 70 Diacoms								
Tag	- 102	Septemb	oer	- 1	Oktob	er		Noveml	oer	Dezember		
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Deki.	C Glieder
7	35	+	in		+	in		+	in		+	in
	20 <sup>h</sup> 46 <sup>m</sup>	82° 20'	0,01 0.01	20 <sup>h</sup> 4.6 <sup>m</sup>	82° 20′	0.01 0.01	20 <sup>h</sup> 46 <sup>m</sup>	82°20′	0.01 0.01	20 <sup>h</sup> 46 <sup>m</sup>	82° 20′	0.01 0.01
1	37.96	22.68	-3 - 6	34.12	30.91	0 —11	28.85	35.47	+4 + 2	23.55	34.89	+1 +11
2	37.86	22.99	-2 - 9	33.97	31.13	+r-9	28.67	35-53	+4 + 7	23.39	34.78	-I +IO
3	37.76	23.31	-r -rr	33.81	31.34	+3 - 6	28.49	35.59	+3 +10	23.23	34.66	-3 + 7
4	37.66	23.62	<sup>™</sup> 0 —II	33.65	31.55	+4 - 1	28.31	35.64	+1 +10	23.06	34.54	-4 + 2
5	37.55	23.93	+2 - 9	33.50	31.75	+4 + 4	28.13	35.69	-1 + 9	22.91	34.41	-5 - 2
6	37.44	24.24	+4 - 5	33.33	31.95	+4 + 8	27.95	35.73	-3 + 5	22.75	34.28	-4 - 6
7	37.33	24.54	+5 0	33.17	32.15	+2 +10	27.77	35.77	<b>-4</b> 0	22.59	34.14	-3 - 8
8	37.22	24.85	+4 + 5	33.01	32.34	-I +IO	27.59	35.80	-4 - 4	22.43	34.00	-1 - 8
9	37.11	25.15	+3 + 9	32.84	32.53	<b>-2 -</b> + 7	27.41	35.82	-4 - 7	22.28	33.85	0 - 6
10	37.00	25.45	+1 +10	32.68	32.72	-4 + 3	27.23	35.84	-2 - 9	22.12	33.70	+2 - 3
II	36.88	25.74	-r + 9	32.52	32.90	-4 - 2	27.05	35.85	-r - 8	21.97	33.54	+3. + 1
12	36.76	26.03	-3 + 6	32.35	33.07	-4 - 6	26.87.	35.86	+1 - 5	21.82	33-37	+3 + 5
13	36.64	26.32	-4 + 1	32.18	33.24	-3 - 8	26.69	35.86	+2 - 2	21.67	33.20	+3 +8
14	36.51	26.6I	-4 - 3	32.01	33.40	-2 - 9	26.51	35.86	+3 + 2	21.53	33.02	+2 + 9
15	36.38	26.89	-4 - 7	31.84	33.56	0 - 7	26.33	35.85	+3 + 6	21.38	32.84	+1 +9
16	36.25	27.17	-3 - 9	31.67	33.71	+2 -4	26.15	35.83	+2 +8	21.24	32.65	0 + 7
17	36.12	27.44	-ı 8	31.50	33.86	+3. 0	25.97	35.81	+2 + 9	21.10	32.46	-2 + 4
18	35-99	27.71	+1 - 5	31.33	34.01	+3 + 4	25.79	35.78	0+9	20.96	32.26	-3 0
19	35.86	27.98	+2 - 2	31.16	34.15	+3 + 7	25.61	35.75	-1 + 6	20.82	32.06	-3 - 4
20	35.72	28.25	+3 + 2	30.98	34.28	+2 + 9	25.44	35.71	-2 + 3	20.68	31.86	-3 - 8
21	35.58	28.51	+3 + 6	30.81	34.41	+1 + 9.	25.26	35.66	-3 - 1	20.55	31.64	-2 -II
22	35.44	28.77	+3 + 8	30.63	34.53	0 + 8	25.09	35.61	-3 - 6	20.42	31.43	0 -12
23	35.30	29.02	+2 + 9	30.46	34.65	-2 + 5	24.91	35.56	-3 - 9	20.29	31.21	+1 -11
24	35.16	29.27	0 + 9	30.28	34.76	-2 + 1	24.74	35.49	-I -II	20.17	30.98	+3 -8
• 25	35.02	29.51	-1 + 7	30.10	34.87	-3 - 3	24.57	35.42	0 -11	20.05	30.75	+4 - 3
26	34.87	29.75	-2 +4	29.92	34.97	-3 - 7	24.40	35-35	+2 - 9	19.93	30.51	+5 + 3
27	34.72	29.99	-3 0	29.74	35.06	-2 -IO	24.23	35.27	+4 - 5	19.81	30.27.	+4 + 7
. 28	34.57	30.23	-3 - 4	29.56	35.15	-I -II	24.06	35.18	+4 0	19.69	30.03	+2 +10
29	34.42	30.46	-3 - 8	29.38	35.24	+1 -10	23.89	35.09	+4 + 5	19.57	29.78	0 +11
30	34.27	30.68	-2 -10	29.21	35.32	+2 - 8	23.72	34.99	+3 + 9	19.46	29.53	-2 + 9
31	34.12	30.91	0 -11	29.03	.35.40	+4 - 3	23.55	34.89	+1 +11	19.35	29.27	-4 + 5
32	10000	-		28.85	35.47	+4 + 2	State of		10.00	19.24	29.01	<u>-5</u> 0
700 70	30000	CALCUMATE	1 2 1/8 1	4500	STATE STATE	CO 3 5 000	2759.5	82 100	23.00 miles	THE REAL PROPERTY.	5500000	A 4 9 100 100 100 100 100 100 100 100 100 1

$$\alpha_{1947.0} = 20^{h} 46^{m} 32.87$$
  $\delta_{1947.0} = +82^{\circ} 20' 12.737$ 

-	1000				Sa)	4 G. Oct	ntic	5 <sup>™</sup> 63			22.24	
		Janua	).T	2500	Febru		LIIOIS .	März			Apri	
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
2	AIU.	Don.	in	3/2	1	in	1220	Dong.	in	A16.	Deki.	in
	1 <sup>h</sup> 40 <sup>m</sup>	85° 2′	0.01 0.01	1 <sup>h</sup> 40 <sup>m</sup>	85° 2′	0.01 0.01	1 <sup>h</sup> 40 <sup>m</sup>	85°.2′	0.01 0.01	1 h 40 m	85° 2′	0.01 0.01
I	22.65	41.41	+6 - 7	14.79	38.96	-5-9	8.76	32.23	<del>-7-7</del>	4.69	21.52	-2 +IO
2.	22.40	41.43	+4 -10	14.55	38.79	-7 - 5	8.58	31.93	-7 - 2	4.61	21.14	+2 +11
3	22.15	41.44	o —II	14.31	38.61	-7 0	8.40	31.62	-6 + 3	4.54	20.77	+5 +10
4	21.89	41.44	-3 -10	14.07	38.43	-6 + 5	8.23	31.31	-4 + 8	4.47	20.39	+7 + 8
5	21.64	41.43	-7 7	13.83	38.24	-3 +10	8.05	31.00	0 +11	4.41	20.00	+7 + 4.
6	21.38	41.42	-8 - 2	13.59	38.04	+1 +12	7.89	30.68	+3 +11	4.35	19.62	+6 0
7	21.13	41.40	-7- + 3	13.36	37.84	+4 +11	7.72	30.36	+6 +10	4.30	19.24	+4 - 4
8	20.87	41.38	-5 + 8	13.13	37.63	+6 + 9	7.56	30.04	+7 + 6	4.25	18.85	+1 - 6
9	20.61	41.35	-i .+ii	12.90	37.42	+7 + 5	7.40	29.71	+7 + 2	4.20	18.47	<b>-2</b> - 7
10	20.35	41.31	+2 +12,	12.67	37.21	+6 <b>+</b> 1	7.25	29.38	+5 - 2	4.16	18.08	<b>-4 - 6</b>
II	20:09	41.27	+5 +11	12.44	36.99	+4 - 3	7.10	29.05	+3 - 5	4.12	17.70	<b>-</b> 6 - 5
12	19.83	41.22	+7 + 8	12.21	36.76	+1 - 5	6.95	28.72	0 - 6	4.08	17.31	-7 - 2
13	19.58	41.17	+7 + 4	11.99	36.53	-1 - 7	6.80	28.38	-3 - 7	4.05	16.93	-6 + 1
14	19.32	41.11	+5 - 1	11.77	36.30	<del>-4</del> - 6	6.66	28,04	-5 - 6	4.02	16.54	-4 + 3
15	19.06	41.04	+3 - 4	11.55	36.06	-6 - 5	6.52	27.69	<i>-7 -</i> 4	4.00	16.15	-2 + 5
16	18.80	40.96	○ - 6	11.34	35.81	-7 - 3	6.39	27.35	-7 - I	3.98	15.77	+1 +7
17	18.55	40.88	-2 - 7	11.13	35.56	<b>−</b> 6 ∘	6.25	27.00	-5 + 2	*)3.96	15.38	+4 + 6
18	18.29	40.80	-5 - 6	10.92	35.31	-5 + 3	6.13	26.65	<b>-4</b> + 5	3.95	14.99	+6 + 4
19	18.04	40.70	-6 - 5	10.71	35.05	-3 + 5	6.00	26.30	-1 + 6	3.94	14.61	+7 0
20	17.78	40.60	-6 - 2	1,0.50	34.79	0 + 6	-5.88	25.94	+2 +7	3.94	14.22	+7 - 4
21	17.53	40.50	-6 + 1	10.30	34.52	+3 + 6	5.76	25.58	+5.+6	3.94	13.83	+5 - 7
22	17.27	40.39	-4 + 3	10.10	34.25	+6 + 5	5.64	25.22	+7 + 3	3.94	13.45	+2 -10
23	17.02	40.27	-2 + 5	9.90	33.97	+7 + r	5.53	24.86	+7 - 1	3.95	13.06	<b>-2</b> . <b>-1</b> 0
24	16.77	40.15	+r + 6	9.70	33.69	+7 - 3	5.42	24.50	+6 - 5	3.96	12.67	-5 - 9
25	16.52	40.02	+4 + 5	9.51	33.41	+6 - 7	5.31	24.13	+4 - 8	3.97	12.29	<b>-7 -5</b>
26	16.27	39.88	+6 + 3	9.32	33.12	+3 -10	5.21	23.76	0 -10	3.99	11.91	-8 .0
27	16.02	39.74	+7 0	9.13	32.83	-I -II	5.11	23.39	-3 -10	4.01	11.53	<b>−6</b> + 5
28	15.77	39.60	+7 - 5	8.94	32.53	-4 -ro	5.02	23.02	-6 - 8	4.04	11.15	-3 + 9
29	15.53	39.45	+5 8	8.76	32.23	-7 7	4.93	22.65	-7 - 3	4.07	10.77	0 +11
30	15.28	39.29	+2 -11	1			4.85	22.28	-7 + I	4.11	10.39	+4 +11
College	100000	33 93 37		16000	THE STATE OF	11233	151338	10000	日は多	36700	1232	

 $\alpha_{1947.0} = 1^h 40^m 15.54$ 

15.03 39.13

14.79 38.96

31

 $\delta_{1947.0} = -85^{\circ} 2' 17.22$ 

21.90 -5 + 6 4.15

21.52- -2 +10

10.01 +6 +9

<sup>\*)</sup> Tag der doppelten unteren Kulmination: April 17.

Obere Kulmination Greenwich

Sa)	4	G.	Octantis	5 <sup>m</sup> 63
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		Mai			Juni			Juli	STACK TO	August		
Tag	AR.	Dekl.	© Glieder	AR.	. Dekl.	© Glieder	AR.	Deki.	© Glieder	AR.	Dekl.	© Glieder
23		1	in	45.00	4	in	Carrie		in	323	9123	in
	1 <sup>h</sup> 40 <sup>m</sup>	85° 1′	0.01 0.01	1 <sup>h</sup> 40 <sup>m</sup>	85° 1′	0.01 0.01	1 h 40 m	85° 1′	0.01 0.01	1 <sup>h</sup> 40 <sup>m</sup>	85° 1′	0.01 0.01
I	4.15	70.01	+6 + 9	7.20	59.29	+3 -4	13.02	52.12	-4 <u>-</u> 6	20.56	49.66	-5 + 3
2	4.19	69.63	+7 + 5	7.35	58.99	0 - 6	13.25	51.96	-6 - 4	20.80	49.68	-3 + 5
3	4.23	69.26	+7 + 1	7.51	58.69	-2 - 7	13.48	51.80	<b>−7 − 2</b>	21.05	49.70	-r + 6
4	4.28	68.88	+5 - 3	7.67	58.40	-5 - 6	13.71	51.65	-6 + 1	21.29	49.72	+2 + 7
5	4.33	68.51	+2 - 5	7.83	58.11	<u>−6 − 4</u>	13.94	51.50	-5 + 3	21.54	49.75	+5 + 5
6	4.39	68.14	-r - 7	8.00	57,.83	-7 2	14.17	51.36	-3 + 5	21.78	49.79	+7 + 2
7	4.45	67.77	-3 - 7	8.17	57.55	-6 + 1	14.41	51.22	0 + 6	22.02	49.83	+7 - 1
8	4.52	67.41	-5 - 6	8.34	57.27	-4 + 4	14.65	51.09	+3 + 6	22.26	49.88	+7 - 6
9	4.59	67.04	7 - 4	8.52	57.00	-1 + 5	14.89	50.97	+6 + 4	22.50	49.93	+4 -10
10	4.66	66.68	-6 - 1	8.70	56.73	+2 +6	15.13	50.85	+7 + I	22.75	49.99	+1 -12
II	4.73	66:32	-5 + 2	8.88	56.46	+5 + 5	15.37	50.73	+7 - 4	22.98	50.06	-3 - 12
1.2	4.81	65.95	-3 5	9.06	56.20	+7 + 3	15.61	50.62	+6 - 8	23.22	50.13	<b>−6</b> −10
13	4.90	65.60	0 + 6.	9.25	55.94	+8 - 1	15.85	50.52	+3 -11	23.46	50.21	-8 - 6
14	4.98	65.24	+3 + 6	9.44	55.69.	+7 - 5	16.10	50.42	-I -I2	23.69	50.30	<i>−</i> 7 ∘
15	5.08	64.89	+6 + 5	9.63	55.44	+5 - 9	16.34	50.33	-4 -II	23.92	50.39	-5"+ 5
16	5.17	64.54	+7 + 2	9.83	55.20	+1 -12	16.59	50.24	-7 - 8	.24.16	50.48	-2 +10
17	5.27	64.19	+8 - 2	10.03	54.96	-2 -12	16.83	50.16	-8 - 3	24.38	50.58	+2 +11
18	5.38	63.84	+6 - 6	10.23	54.73	<u>-6 - 9</u>	17.08	50.09	-7 + 3	24.61	50.69	+5 +11
19	5.49	63.50	+3 -10	10.43	54.50	8 5	17.33	50.02	-4 + 8	24.84	50.80	+7 + 8
20	5.60	63.16	0 -11	10.63	54.27	-7 + I	17.58	49.96	0 +12	25.06	50.92	+7 + 4
21	5.71	62.82	-4 -10	10.84	54.05	-6 + 6	17.82	49.90	+3 +12	25.29	51.04	+6 ©
22	5.83	62.48	-7 - 7	11.04	53.84	-3 + 10	18.07	49.85	+6 +10	25.51	51.17	+3 - 4
23.	5.95	62.15	-8 - 2	11.25	53.63	+1 +12	18.32.	49.81	+7 + 7	25.72	51.30	0 - 5
24	6.08	61.82	-7 + 3	11.47	53.42	+5. +12	18.57	49.77	47 + 3	25.94	51.44	-3 - 6
25	6.21	61.49	-5 + 8	11.68	53.22	+7 + 9	18.81	49.73	+5 - 1	26.15	51.59	<u>-5</u> - 5
26	6.34	61.17	-1 +11	11.90	53.03	+7 + 5	19.06	49.71	+2 -4.	26.36	51.74	-7 - 3
27	6.47	60.85	+2 +12	12.12	52.84	+6 + 1	19.31	49.68	<b>-1</b> - 6.	26.57	51.90	-7 0.
28	6.61	60.53	+5 +10	12.34	52.65	+4 -4 3	19.56	49.67	-4 - 6	26.77	52.06	-6 + 2
29	6.75	60.22	+7 + 7	12.57	52.47	+1 -5	19.81	49.66	-6 - 5	26.98	52.23	-4 + 5
30	6.90	59.91	+7 + 3	12.79.	52.29	<b>-2</b> -6	20.06	49.66	-7 - 2	27.18	52.40	-2 + 6
31	7.05	59.60	+5 - 1	13.02	52.12	<u>-4 - 6</u>	20.31	49.66	<i>−6</i> : o	27.38	52.57	+1 + 7
32	7.20	59.29	+3 -4				20.56	49.66	-5 + 3.	27.57	52.75	+4 + 6
7-33	100000	46595		18335	B. 4880	18 A. 18	1978			THE STREET	19:45:50	TE TO THE

 $\alpha_{1947.0} = 1^{h} 40^{m} 15.54$   $\beta_{1947.0} = -85^{\circ} 2' 17.22$ 

200) 4 0. 0000000000000000000000000000000	Sa)	4	G.	Octantis	5 <sup>m</sup> 63
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т		Septem!	ber		Oktob	er		Noveml	oer		Dezemb	oer .
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
1330		10-24	in		90	in	100	_	in			in
	1 <sup>h</sup> 40 <sup>m</sup>	85° 1′	0.01 0.01	1 40 m	85° 2′	0.01 0.01	1 40 m	85° 2′	0.01 0.01	1 40 m	85° 2′	0.01 0.01
1	27.57	52.75	+4 + 6	31.80	0.10	+7 - 2	31.99	9.94	_6 <u>÷</u> 10	27.99	17.64	-7 + 3
2	27.76	52.94	+6 + 4	31.87	0.40	+6 6	31.92	10.24	-7 - 5	27.79	17.84	-4.+8
.3	27.95	53.13	+7 0	31.95	0.69	+3 -10	31.84	10.54	-8 o.	27.60	18.03	0 +11
4	28.14	53.32	+7 - 4	32.02	0.99	0 -11	31.76	10.84	-6 + 5	27.40	18.21	+3 +11
- 5	28.32	53.52	+5 - 8	32.08	1.29	-4 -11	31.67	11.13	-3 + 9	27.20	18.39	+6 +10
- 6	28.50	53.73	+2 -11	.32.14	1.59	-6 - 8	31.58	11.42	+1 +11	27.00	18.57	+7 + 6
7	28.67	53.94	-I -I2	32.19	1.90	-8 - 4	31.48	11.72	+4 +10	26.79	18.74	+7 + 2.
8	28.85	54.15	-5 -11	32.24	2.20	-7 + 1	31.39	12.00	+7 + 8	26.58	18.90	+5 - 2
9	29.02	54.37	-7 - 7	32.29	2.51	-5 + 6	31.28	12.29	+7 + 4	26.37	19.06.	+2 - 5
10	29.19	54.59	-8 - 2	32.33	2.82	—I 4-IO	31.17	12.57	+6 0	26.15	19.21	-r - 6
II	29.35	54.82	-6 + 3	32.37	3.12	+2 +11	31.06	12.85	+4 - 4	25.94	19.35	-4 - 6
12	29.51	55.05	-3 + 8	32.40	3.43	+5 +10	30.95	13.12	+1 - 6	25.72	19.49	-6 - 5
13	29.66	55.29	0 +10	32.43	3.74	+7 + 7	30.82	13.39	-2 - 7	25.49	19.63	<b>−7 − 2</b>
14	29.81	55-53	+4 +11	32.45	4.05	+7 + 3	30.70	13.66	-5 - 6	25.27	19.76	-7 + 1
15	29.96	55.77	+6. + .9	32.47	4.36	+6 - 1	30.57	13.92	-6 - 4	25.04	19.88	-5 + 4
16	30.10	56.02	+7 + 6	32.48	4.68	+3 - 5	30.44	14.18	-7 - I	24.81	20.00	-3 + 6
17	30.24	56.27	+7 + 1	(32.49 \32.50	4.99 5.31	0 - 61	30.30	14.44	-6 + 2	24.58	20.12	o + 7
18	30.38	56.52	+5 - 3	32.50	5.62	-6 - 5	30.16	14.70	-5 + 5	24.35	20.22	+3 + 7
19	30.51	56.78	+2 - 5	32.49	5.94	-7 - 3	30:02	14.95	-2 + 6	24.11	20.32	+5 + 5
20	30.64	57.04	-2 - 6	32.48	6.25	<i>−</i> 7 ∘	29.87	15.20	+1 +7	23.87	20.42	+7 + 2
21	30.77	57.30	<u>-4</u> - 6	32.47	6.56	-6 + 3	29.72	15.44	+4 + 6	23.63	20.51	+8 - 2
22	30.89	57.57	-6 - 4	32.45	6.88	-3 + .6	29.56	15.68	+6 + 4	23.39	20.59	+7 - 6
-23	31.01	57.84	-7 - I	32.42	7.19	-1 + 7	29.40	15.91	+7 + 1	23.15	20.66	+4 -10
24	31.12	58.12	-6 + 1	32.39	7.49	+2 + 7	29.23	16.14	+7 - 3	22.91	20.73	+1 -12
25	31.23	58.39	-5 + 4	32.36	7.80	+5 + 6	29.06	16.37	+6 - 8	22.66	20.79	-3 -12
26	31.33	58.68	-2 + 6	32.32	8.11	+7 + 3	28.89	16.59	+2 -11	22.41	20.85	<b>–</b> 6 <b>–</b> 10
27	·31.43	58.96	0 + 7	32.28	8.42	+7 - 1	28.72	16.81	-I -I2	22.17	20.90	-8 - 5
28	31.53	59.24	+3 + 7	32.23	8.73	+7 - 5	28.54	17.03	-5 -11	21.92	20.95	-8 0
29	31.62	59-53	+6 + 5	32.18	9.04	+4 - 8	28.36	17.24	-7 - 7	21.67	20.99	-6 + 6
30	31.71	59.81	+7 + 2	32.12	9.34	+1 -11	28.17	17.44	-8 - z	21.42	21.02	<b>−2</b> +10
31	31.80	60.10	+7-2	32.06	9.64	-2 -11	27.99	17.64	-7 + 3	21.17	21.04	+2 +12
32	A CONTRACTOR	14.	100	31.99	9.94	-6 -IO	10192			20.92	21.06	+5 +11
2000	2	200	15 GEST 15	STORE OF THE PARTY	40.893	1918 60	5038578	40000	1971	VER 181	RUSSE	5 A 35 7

 $<sup>\</sup>alpha_{1947.0} = 1^h 40^m 15.54$ 

Sb)	ξ Mensae	5**85
20)	2 monogo	2.03

			100000	1000	Fahama	S monso	5.0	10000		April		
Tag		Janua	400 3750	1.7	Februa	A 100 PM	170	März	A STATE OF THE PARTY OF	A.D.	April	
STORY.	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
			in	16 m		in s	h m	- 1	in		-	in s
	5 <sup>h</sup> 4 <sup>m</sup>	82° 32′	0.01 0.01	5 <sup>h</sup> 4 <sup>m</sup>	82° 32′	0.01 0.01	5 <sup>h</sup> 4 <sup>m</sup>	82° 32′	0.01 0.01	5 <sup>h</sup> 4 <sup>m</sup>	32° 32′	0.01 0.01
1	61.70	47.85	+4 + 3	57.49	54.78	+1 -10	52.33	56.99	0 —10	46.43	54.58	-3 + 3
2	61.61	48.13	+4 - I	57.32	54.93	-ı -ıa	52.14	56.99	-2 - 9	46.25	54.42	<del>-2</del> + 8
3	61.50	48.41	+3 - 6	57.15	55.08	-3 - 8	51.94	56.99	-3 - 5	46.07	54.26	-I +IO
4	61.40	48.69	+2 - 9	56.98	55.22	-4 - 3	51.75	56.98	-4 0	45.90	54.10	, .o +jii
5	61.29	48.96	0 —11	56.81	55.35	-4 + 2	51.55	56.96	-3 + 5	45.72	53.92	+i + 9
6	61.18	49.23	-2 - g	56.64	55.48	-3 + 7	51.36	56.94	-2 + 9	45-55	53.75	+2 + 6
7	61.07	49.50	-4 - 5	56.46	55.61	-2 +IO	51.16	56.92	-1 +11	45.38	53.75	+3 + 2
8	60.96	49.76	<b>-</b> 4 0	56.28	55.73	0 +11	50.97	56.88	+1 +11	45.21	53.38	+2 - 2
9	60.84	50.02	-4 + 5	56.10	55.84	+1 +10	50.77	56.85	+2 + 8	45.04	53.19	+1 - 6
10	60.72	50.28	-3 + 9	55.92	55.95	+2 + 7	50.58	56.80	+2 + 5	44.88	52.99	0 - 8
		1015		2. 13. 12	13270		1993 3				12 35	Side (B
II	60.60	50.53	-1 +11	55.74	56.06	+2 + 3	50.38	56.75	+2 0	44.71	52.79	-1 - 9
12	60.47	50.78	0 +11	55.56	56.16	+2 - I	50.18	56.70	+2 - 4	44.55	52.59	-2 - 8
13	60.35	51.02	+1 +9	.55.37	56.25	+1 - 5	49.99	56.64	+1 -7	44.39	52.39	-2 - 6
14	60.22	51.26	+2 + 5	55.19	56.34	.0 - 8	49.79	56.58	0 - 9	44.23	52.18	-3 - 3
15	60.08	51.49	+2 + I	55.00	56.42	-ı — 9	49.60	56.51	-1 - 9	44.07	51.97	-2 + I
16	59-95	51.72	+2 - 3	54.82	56.50	-2 <b>-</b> 8	49.41	56.43	-2 - 8	43.91	51.75	-ı -+· 5
17	59.81	51.95	+1 -6	54.63	56.57	-2 - 6	49.21	56.36	-3 - 5	43.75	51.52	0 + 8
18	59.67	52.17	0 — 8	54.44	56.63	-3 - 4	49.02	56.27	-3 - 1	43.60	51.30	+1 +9
19	59.53	52.39	-r - 9	54.25	56.69	:−2 ⊙	48.84	56.18	-2 + 2	43.45	51.07	+3 + 8
20	59.38	52.60	-2 - 8	54.06	56.75	-2 + 4	48.65	56.09	-1 + 6	43.30	50.83	+4 + 5
21	59.23	52.81	<b>-2</b> - 6	53.87	56.80	-1 + 7	48.46	55-99	0 + 8	43.15	50.59	+4 + ĭ
22	59.08	53.01	-3 - 3	53.69	56.84	+1 + 8	48.27	55.89	+2 + 9	43.00	50.35	+3 - 3
23	58.93	53.21	-2 + 1	53.50	56.88	+2 + 8	48.08	55.78	+3 + 7	42.85	50.10	+2 - 8
24	58.78	53.41	-1 + 5	53.30	56.91	+3 + 6	47.89	55.67	+4 + 4	42.71	49.86	0 —10
25	58.62	53.60	0 + 7	53.11	56.94	+4 + 2	47.71	55.55	+4 — I	42.57	49.60	-I -IO
26	58.47	53.78	+2 + 8	52.92	56.96	+4 - 2	47.52	55.42	+3 - 5	42.43	40.25	-3 - 8
27	58.31	53.96	+3 +8	52.72	56.98	+3 - 7	47.34	55.29	+3 - 5 +2 - 9	42.30	49.35	-3 - 3
28	58.15	54.14	+4 + 5	52.53	56.99	+1 -10	47.15	55.16	0 -10	42.17	48.83	-4 + I
29	57.98	54:31	+4 + 1	52.33	56.99	0 —10	46.97	55.02	-2 - 9	42.04	48.56	-3 + 6
30	57.82	54.47	+4 - 4	32.33	30.99		46.79	54.88	-3 - 6	41.91	48.29	-2/±10
	200	C-0.3		100	1000		Miller .	37.00		4-191		
31	57.66	54.63	+2 - 8			33.49	46.61	54.73.	-4 - 2	<b>-</b> 41.78	48.02	0 +11
32	57.49	54.78	+ <b>i</b> - <b>i</b> o	100 M	103 - 53	(S-50)	46.43	54.58	-3 + 3		to keep 1	
	NEW YORK				College College	A STATE OF THE STA		BURNESS OF	0.65 9.65	10000	CONTRACT S	30000000

$$\alpha_{1947.0} = 5^h 4^m 49.67$$

$$\delta_{1947.0} = -82^{\circ} 32' 40.69$$

The state of					Sb)	ξ Mensa	e 5 <sup>m</sup> 8	\c				
		Mai	9.00		Juni		3	Juli			Augus	t
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
19.49	Section 1	10-03	in	37.00	( <u>1</u>	in	78 E - 9		in	3035	3.200	in
100	5 <sup>h</sup> 4 <sup>m</sup>	82° 32′	10.01	5 <sup>h</sup> 4 <sup>m</sup>	82° 32′	0.01 0.01	5 <sup>h</sup> 4 <sup>m</sup>	82° 32′	0.01 0.01	5 <sup>h</sup> 4 <sup>m</sup>	82° 32′	10.0 10.0
I	41.78	48.02	0 +11	39.06	38.31	+2 + I	38.99	28.03	0 - 8	41.48	18.97	-3 - 4
2	41.65	47.75	+I +IO	39.01	37.97	+2 - 3	39.03	27.70	-r - g	41.60	18.73	-3 - 1
3	41.53	47.47	+2 + 7	38.97	37.63	+1 - 6	39.07	27.37	-2 - 8	41.72	18.50	-2 + 3
4	41.41	47.19	+2 + 3	38.93	37.29	0 - 8	39.12	27.05	-2 - 6	41.84	18.27	-1 + 6
5	41.29	46.90	+2 - I	38.90	36.95	-ı — 9	39.17	26.72	-3 - 3	41.97	18.05	0 + 8
6	41.18	46.62	+2 - 6	38.86	36.60	-2 - <b>8</b>	39.22	26.40	<b>-2</b> 0	42.10.	17.84	+2 + 9
7	41.06	46.32	+1 - 7	38.84	.36.25	-2 - 5	39.28	26.08	-2 + 4	42.23	17.63	+3 + 7-
8	40.95	46.03	0 - 9	*)38.81	35.91	-3 - 2	39.34	25.76	0 + 7	42.36	17.42	+4 + 4
9	40.84	45.73	-ı - 9 ·	38.79	35.56	-2 + 2	39.40	25.44	+1 +8	42.49	17.22	+4 - 1
10	40.74	45.43	-2 - 7	38.77	35.21	-ı + 5	39.46	25.12	+3 + 8	42.62	17.02	+4 - 5
II	40.63	45.13	-3 - 4	38.74	34.87	0 + 8	39.53	24.81	+4 + 6	42.76	16.82	+2'-9
12	40.53	44.83	-2 - I	38.73	34.52	+2 +9	39.60	24.49	+4 + 2	42.89	16.63	+1 -11
13	40.43	44.52	-2 + 3	38.71	34.17	+3 +8	39.67	24.19	+4 - 3	43.03	16.45	-ı -ıı
14	40.34	44.21	-1 + 6	38.70	33.83	+4 + 5	39.74	23.88	+3 - 7	43.17	16.27	-3 - 7
15	40.24	43.90	+1 +8	38.69	33.48	+4 0	39.82	23.58	+2 -11	43.31	16.09	-4 - 3
16	40.15	43.58	+2 +9	38.69	33.13	+4 - 5	39.90	23.28	0 —11	43.46	15.92	<b>-4</b> + 3
17	40.06	43.27	+4 + 7	38.69	32.79	+2 - 9	39.98	22.99	-2 - 9	43.60	15.76	-3 + 8
18	39.97	42.95	+4 + 3	38.69	32.44	+1 -11	40.06	22.70	-3 - 5	43.75	15.60	-1 +11
19	39.89	42.63	+4 - 2	38.70	32.10	-I -IO	40.15	22.41	<b>-4</b> 0	43.90	15.45	0 +12
20	39.81	42.30	+3 - 6	-38.71	31.76	-37	40.24	22.12	-4 ± 5	44.05	15.30	+1 +10
21	39.73	41.98	+1 -10	38.71	31.41	<b>-4</b> - 3	40.33	21.84	-2 + 9	44.20	15.15	+2 + 6
22	39.65	41.65	-1 -11	38.73	31.07	-4 + 3	40.42	21.55	-1 +12	44.35	15.02	+2 + 1
23	39.58	41.33	-2 - 9	38.74	30.73	-3 + 8	40.52	21.28	0 +11	44.50	14.89	+2 - 3
24	39.51	41.00	-4 - 6	38.76	30.39	-2 +11	40.62	21.01	+2 + 8	44.65	14.76	+1 - 6
25	39-44	40.67	-4 - I	38.78	30.05	0 +11	40.72	20.74	+2 + 4	44.81	14.64	0 — 8
26	39.38	40.34	-4 + 5	38.81	29.71	+1 +10	40.82	20.47	+2 0	44-97	14.53	<b>∸1</b> − 9
27	39.32	40.00	-3 + 9	38.84	29.37	+2 + 6	40.93	20.22	+1 -4	45.12	14.42	-2 - 7
28	39.26	39.67	-I +II	38.87	29.04	+2 + 2	41.04	19.96	0 - 7	45.28	14.32	-3 - 5
29	39.21	39.33	· -0 +11	38.91	28.70	+2 - 2	41.15	19.71	-r - 8	45.44	14.22	-3 - 2
30	39.16	38.99	+2 + 9.	38.95	28.37	+r-5	41.26	19.46	-2 - 8	45.59	14.13	-2 + 2

8	sec 8	tg δ	8	sec 8	tg δ	δ.	sec 8	tg δ
-82° 32′ 10″	7.698	-7.633	-82° 32′ 30′′	7.704	-7.639	-82° 32′ 40″	7.707	-7.642
20	7.701	-7.636	40	7.707	-7.642	50	7.710	-7.644

41.37

41.48

28.03

 $\alpha_{1947.0} = 5^h 4^m 49.67$ 

38.99

39.11

31

32

38.65

39.06 38.31

+2 +5

+2 + I

$$\delta_{1947.0} = -82^{\circ} 32' 40.69$$

19.21

18.97

45.75

45.91

14.04

13.96

0 + 8

<sup>\*)</sup> Tag der doppelten unteren Kulmination: Juni 8.

Obere Kulmination Greenwich

Sb) & Mensae 5. 8	Sb)	ξ	Mensae	5.85	
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	A Section	Septemb	per		Oktob	er	3.0	Noveml	oer	Dezember		
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
798	200		in	8 48	524	in	288	151.28	in	and the same	BOLD.	in
	5 <sup>h</sup> 4 <sup>m</sup>	82° 32′	0.01 0.01	5 <sup>h</sup> 4 <sup>m</sup>	82° 32′	0.01 0.01	5 <sup>h</sup> 4 <sup>m</sup>	82° 32′	10.01 10.01	5 <sup>h</sup> 4 <sup>m</sup>	82° 32′	0.01 0.01
I	45.91	13.96	0 + 8	50.78	1.1.52	+3 + 7	54.77	20.58	+ <b>2</b> - 8	56.33	29.90	-2 - 9
2	46.07	13.89	+1 +8	50.94	14.63	+4 + 3	54.87	20.85	o —ir	56.34	30.23	-3 - 5
3.	46.23	13.83	+3 +8	51.09	14.75	+4 - 2	54.96	21.13	-r -11	56.33	30.57	<u>-4</u> 0
4	46.40	13.77	+4 + 5	51.24	14.88	+3 - 6	55.05	21.41	-3 - 8	56.33	30.90	-3 + 5
5	46.56	13.71	+4 + 1	51.39	15.01	+2 -10	55.14	21.69	-3 - 4	56.32	31.24	-2 + 9
6	46.72	13.67	+4 - 3	51.54	15.15	o —11	55.22	21.98	-4 + 2	56.31	31.58	-1.+11
7	46.89	13.63	+3 - 8	51.68	15.29	-2 -10	55.30	22.27	-3. + 7	56.30	31.92	+1 +11
8	47,05	13.59	+111	51.83	15.44	-3 - 7	55.38	22.56	-2 +10	{ 56.28 56.26	32.25	+2 + 81 +2 +4)
9	47.22	13.56	-ı -ıı	51.97	15.59	-4 - 2	55.46	22.85	o +1i	56.24	32.92	+2 0
10	47.38	13.54	-2 - 9	52.12	1.5.75	-3 +.4	55.53	23.15	+1 +10-	56.21	33.25	+1 - 5
II	47.54	13.52	-3 - 5	52.26.	15.92	-2 ÷ 8	55.60	23.45	+2 + 7	56.18	33.59	0 - 7
12	47.71	13.51	-3 + 1	52.40	16.09	-1 +11	55.67	23.75	+3 + 2	56.15	33.92	-1 - 9
13	47.87	13.51	-3 + 6	52.54	16.26	+1 +11	55.73	24.06	+2 - 2	56.11	34.24	-2 - 8
14	48.03	13.51	-2 +10	52.67	16.45	+2 + 9	55.79	24.37	+1 - 6	56.07	34.57	-3 - 6
15	48.20	13.52	× 0 +11	52.81	16.63	+2 + 5	55.85	24.68	0 - 8	56.03	34.90	-3 - 4
16	48.36	13.54	+1 +11	52.94	16.83	+2 + I	55.90	25.00	<b>-1</b> -9	55.98	35.23	-3 0
17	48.53	13.56	+2 + 8-	53.07	17.03	+2 -4	55.95	25.32	-2 - 8	55-94	35.56	-2 + 3
18	48.70	13.59	+2 + 3	53.20	17.23	+r-7	56.00	25:63	-3 - 6	55.88	35.88	-1 + 7
19	48.86	13.62	+2 - 1	53.33	17.44	-1 - 9	56.05	25.95	-3 - 2	55.83	36.20	+1 +8
20	49.03	13.66	+1 - 5	53.46	17.65	-2 - 9	56.09	26.27	-3 + 1	55.77	36.52	+2 + 9
21	49.19	13.70	0 - 8	53.58	17.87	-2 - 7	56.13	26.60	-2 + 5	55.71	36.84	+3 + 7
22	49.35	13.76	-1 - 9	53.70	18.10	-3 - 4	56.16	26.92	0 + 8	55.64	37.15	+4 + 4
23	49.52	13.82	-2 - 8	53.82	18.32	-3 - 1	\$6.19	27.25	+1 + 9	55.57	37.47	+5 - I
24	49.68	13.88	-3 - 6	53.93	18.56	-2 + 3	56.22	27.58	+3 +8	55.50	37.77	+4 - 6
25	49.83	13.95	-3 - 3	54.04	18.80	-1 + 6	56.25	27.91	+4 + 6	55.42	38.08	+2 -10
26	49.99	14.03	-3 + 1	54.15	19.04	a + 8	56.27	28.24	+4 +_2	55.34	38.39	0 1-12
27	50.15	14.12	-2 + 4	54.26	19.29	+2 + 9	56.29	28.57	+4 - 3	55.26	38.69	-i -ii
28	50.31	14.21	-1 + 7	54.37	19.54	+3 + 8	56.31	28.90	+3 - 7	55.18	38.99	-3 - 8
29	50.47	14.31	+1 + 9	54.47	19.79	+4 + 4	56.32	29.23	+1 -10	55.09	39.29	-4 - 3
30	50.63	14.41	+2 + 8	54.58	20.05	+4 0	56.33	29.56	0 —11	55.00	39.58	-4 + 3
31	50.78	14.52	+3 + 7	54.68	20.31	+4 - 4	56.33	29.90	-2 - 9	54.91	39.87	<b>-3</b> +-8
32	5 49 9		100	54.77	20.58	+2 - 8	3 03	130		54.81	40.16	-1 +11
Sour	11/5	15 SO 68	Control (Sec.)			100	\$ 32.775			2 88 800	The state of	10 m

α<sub>1947.0</sub>=5<sup>h</sup> 4<sup>m</sup> 49.67

 $\delta_{1947.0} = -82^{\circ} 32' 40.69$ 

Sc) ζ Octantis 5 <sup>m</sup> 38												
Tag	C	Janua	r.		Februa	ır		März			April	
rag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	C Glieder	AR.	Dekl.	© Glieder
1		-	in		×2 .	in	1		in			in
	9 <sup>h</sup> 5 <sup>m</sup>	85° 26′	0.01 0.01	9 <sup>h</sup> 5 <sup>m</sup>	85° 27'	0,01 0,01	9 <sup>h</sup> 4 <sup>m</sup>	85° 27′	0.01 0.01	9 <sup>4</sup> 4 <sup>m</sup>	85° 27′	0.01 0.01
ï	1.75	56.13	-2 +12	3.20	7.29	+8 + 2	60.38	17.85	+7 - 6	53.78	26.87	- <b>5</b> - 6
2	1.87	56.46	+1 +11	3.17	7.66	+8 -4	60.22	18.19	+4 - 9	53.52	27.10	-8 - 2
3.	1.99	56.79	+5 + 9	3.14	8.04	+6 - 8	60.06	18.53	+1 -10	53.26	27.33	-8 + 2
4	2.10	57.12	+7 + 5	3.10	8.41	+3 -10	59.89	18.86	-3 - 8	53.00	27.55	-7 + 5
5	2.21	57.46	+8 - I	3.05	8.79	-1 ,-10	59.72	19.20	-6 - 5	52.73	27.76	-5 + 8
		Bearing St.		∫ 3.00	9.16	$\begin{bmatrix} -5 & -8 \\ -8 & -4 \end{bmatrix}$			0 .		S. 25.	
6	2.31	57.80	+7 - 6	1 2.94	9.54		59.54	19.52	-8 - i	52.47	27.98	-2 + 8
7 8	2.41	58.14	+1 -11	2.88	9.91	-9 + I -8 + 5	59.36	19.85	-8 + 3 -7 + 7	52.20 51.92	28.18	+1 + 6 +4 + 4
9	2.58	58.84	-3 -10	2.74	10.29	-6 + 7	59.17 58.98	20.17	-4 + 8	51.65	28.58	+5 0
10	2.66	59.19	-7 - 6	2.67	11.04	-3 + 8	58.79	20.49	-1 + 7	51.37	28.77	+6 - 3
		399					20000	及等位				25
'II	2.74	59.54	-8 - 2	2.59	11.41	0 + 6	58.59	21.11	+2 + 5	51.10	28.96	+6 - 6
12	2.81	59.89	-9 + 2	2.51	11.78	+3 + 4	58.39	21.42	+4 + 2	50.82	29.15	+4 - 8
. 13	2.88	60.25	-7 + 5	2.42	12.15	+5 + 1	58.19	21.73	+6 - 1	50.54	29.33	+2 - 8
14	2.94	60.61	-5 + 7	2.32	12.52	+6 - 3	57.98	22.03	+6 - 5	50.26	29.50	0 7_
15	3.00	60.97	-2 + 7	2.23	12.89	+6 - 6	57.78	22.33	+5 - 7	49.98	29.67	-3 - 5
16	3.05	61.33	+1-+5	2.12	13.26	+5 - 8	57.56	22.63	+4 - 8	49.70	29.84	-5 - r
17	3.10	61.70	+4 + 3	2.01	13.62	+3 - 8	57.35	22.92	+1 -8	49.43	30.00	-6 + 3
18	3.14	62.06	+5 - 1	1.90	13.98	0 - 8	57.13	23.21	-1 - 6	49.13	30.15	-5 + 7
19	3.18	62.43	+6 - 4	1.78	14.34	-2 - 6	56.91	23.50	<del>-4</del> - 3	48.84	30.30	-3 +10
20	3.21	62.80	+5 - 6	1.66	14.70	-4 - 2	56.68	23.78	5 .0	48.55	30.45	-1 +ir
21	3.24	63.17	+4 - 8	1.53	15.06	-5 + 2.	56.45	24.06	-6 + 5	48.26	30.59	+3 +10
22	3.26	63.54	+2 - 8	1.41	15.42	-5 + 6	56.22	24.34	-5 + 8	47.97	30.73	+5 + 6
23	3.28	63.91	0 - 7	1.27	15.78	-4 + 9	55.99	24.61	-2 +10	47.69	30.87	+7 + 2
24	3.29	64.28	-3 - 4	1.13	16.13	-1 +11	55.75	24.88	+1 +11	47.40	30.99	+7 -4
25	3.30	64.65	_5 o	0.99	16.48	+2 +10	55.51	25.14	+4.+9	47.10	31.11	+6 - 8
26	3.30	65.03	-5 + 4	0.85	16.83	+5 +8	55.27	25.40	1-6 + 5	46.81	31.23	+3 -10
27	3.30	65.40	-5 + 8	0.69	17.17	+7 + 3	55.03	25.65	+8 0	.46.52	31,34	-1 -11
28	3.29	65.78	-3. +10	0.54	17.51	+8 - 2	54.78	25.90	+7 - 5	46.22	31.44	<u>-4 - 8</u>
29	3.27	66.15	0 +11	0.38	17.85	+7 - 6	54.54	26.15	+5 - 9	45.93	31.54	<del>-7 - 4</del>
30	3.25	66.53	+3 +10	200			54.28	26.39	+2 -10	45.63	31.63	-8 0
		300 Bar		12/2/1	Section			23.77				
31	3.23	66.91	+6 + 7 +8 + 2				54.03	26.63	-2 - 9	45.34	31.72	-8 + 4
32	3.20	67.29	1 +0 + 2	Con 1924			53.78	26.87	`-5 - 6	22003		Control of the
	333	E-2019	200 0 1	1 2	0		0 1 4		2	N. 3 W.	2   40	

 $\alpha_{1947.0} = 9^h 4^m 47^{$04}$ 

 $\delta_{1947.0} = -85^{\circ} \ 27^{'} \ 14.''67$ 

Obere Kulmination Greenwich

Sc)	3	Octantis	5 <sup>m</sup> 38
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250		2-13Yes 1		Sey Cotanus 5.30					Te Salving			S 1 45 C
Tag	43 B	Mai			Juni		,	Juli			Augus	t
Lag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
1818	CARL TO		in		-	in	120	3.43	in	200	-	in
	9 <sup>h</sup> 4 <sup>m</sup>	85° 27′	0.01 0.01	9 <sup>h</sup> 4 <sup>m</sup>	85° 27′	10.01	9 <sup>h</sup> 4 <sup>m</sup>	85° 27′	0.01 0.01	9 <sup>h</sup> 4 <sup>m</sup>	85° 27′	0.01 0.01
I	45.34	31.72	-8 + 4	36.35	31.83	+2 + 5	29.17	27.31	+6 - 3	25.02	19.03	+1 - 8
2	45.04	31.81	-6 + 7	36.07	31.75	+4 + 2	28.97	27.09	+5 - 6	24.95	18.73	<b>-2</b> - 6
3	44.75	31.89	-3 + 8	35.80	31.67	+5 - 1	28.78	26.87	+4 - 8	24.90	18.43	-4:-3
4	44-45	31.96	0 + 7	35-53	31.58	+6 - 4	28.60	26.64	+2 -8	24.84	18.12	-5 + 1
5	44.15	32.03	+3 + 5	35.26	31.48	+5 - 7	28.41	26.41	.0 - 7	24.79	17.81	-5 + 5
6	43.86	32.09	+5 + 2	35.00	31.38	+4 - 8	28.24	26.17	-2 - 5	24.75	17.51	-4 + 9
7.	43.56	32.15	+6 - 2	34.73	31.28	+2 - 8	28.06	25.93	-4 - 2	24.71	17.19	-2 +11
8	43.26	32.20	+6 - 5	34.47	31.17	-I - 7	27.89	25.69	-5 + 2	*)24.68	16.88	+1 +12
9	42.97	32.24	+5 - 7	34.21	31.05	-3 - 4	27.73	25.44	-5 + 7	24.65	16.57	+4 +10
10	42.67	32.28	+3 -8	33-95	30.93	<u>-5</u> 0	27.56	25.19	-4 +IO	24.62	16.26	+7 + 6
11	42.37	32.32	+1 -8	33.70	30.80	-5 + 4	27.40	24.94	-I +I2	24.60	15.94	+9 + 1.
12	42.08	32.35	-2 - 6	33.44	30.67	-5 + 8	27.25	24.69	+3 +11	24.58	15.63	+8 - 4
. 13	41.78	32.38	-4 - 2	33.19	30.54	-3 + 11	27.09	24.43	+6 + 9	24.57	15.32	+6 -8
14	41.48	32.40	-5 + 2	32.95	30.40	0 .+12	26.94	24.17	+8 + 4	24.56	15.01	+3 -10
15	41.19	32.41	-5 + 6	32.70	30.25	+4 +10	26.80	23.90	+9 — 1	24.56	14.69	-1 - 9
16	40.90	32.42	<b>-4</b> +10	32.46	30.10	+6 + 7	26.66	23.64	+7 - 6	24.57	14.38	-5 - 7
17	40.61	32.43.	-2 +12	32.22	29.95	+8 + 2	26.53	23.36	+4 -10	24.58	14.06	-8 3
18	40.32	32.42	+1 +11	31.98	29.79	+8 - 4	26.40	23.09	+1 -11	24.59	13.75	-9 + 2
19	40.03	32.41	+5 + 8	31.75	29.62	+6 - 8	26.27	22.81	-4 - 9	24.61	13.44	-8 + 6
20	39.74	32.40	+7 + 4	31.52	29.45	+2, -11	26.14	22.53	<b>-7 - 6</b>	24.63	13.13	-5 + 7
21	39.45	32.38	+8 - r	31.29	29.28	-2 -11	26.02	22.26	-9 - I	24.66	12.81	-2 + 7
22	39.16	32.36	+7 - 6	31.06	29.10	-5 - 8	25.91	21.97	-9 + 3	24.69	12.50	+1 +6
23	38.87	32:33	+4 -10	30.84	28.92	-8 - 4	25.80	21.69	-7 + 6	24.73	12.20	+4 + 2.
24	38.58	32.30	+1 -11	30.62	28.73	-9 + 1	25.69	21.40	-4 + 8	24.77	11.89	+5 - 1
25	38.30	32.26	-3 -10	30.40	28.54	-8 + 5	25.59	21.11	$-\mathbf{r} + 7$	24.82	11.58	+6 - 5
26	38.01	32.22	-7 - 6	30.19	28.34	-6 + 7	25.50	20.82	+2 +4	24.87	11.28	+5 - 8
2.7	37.73	32.17	-8 - 2	29.98	28.14	-3 + 7	25.41	20.53	+4 + 1.	24.93	10.97	+3 - 9
28	37.45	32.11	-8 + 2	29.77	27.94	0 + 6	25.32	20.23	+5 - 2	24.99	10.67	+1 -9
29	37.18	32.05	-7 + 6	29.57	27.73	+3 + 3	25.24	19.93	+5 - 6	25.06	10.36	-r - 7
30	36.90	31.98	<b>−5</b> + 8	29.37	27.52	+5 0	25.16	19.63	+4 - 8	25.13	10.06	-3 - 5
31	36.62	31.91	-I + 7	29.17	27.31	+6 - 3	25.09	19.34	+3 - 9	25.20	9.76	-5 - I
32	36.35	31.83	+2 + 5	1000		1235	25.02	19.03	+1 -8	25.28	9.46	-6 + 3
858		57c 57c	F 5 2 2 7	1	93.189	20.30-2	1000		1000		SERVICE V	

 $\alpha_{1947.0} = 9^h 4^m 47.04$ 

 $\delta_{1947.0} = -85^{\circ} 27' 14.67$ 

<sup>\*)</sup> Tag der doppelten unteren Kulmination: Aug. 8.

					Sc)	ζ Octant	is 5 <sup>m</sup>	38				
Tag		Septeml	ber		Oktobe	er		Noveml	oer	060	Dezemb	er
rag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
	800 AC	於土地	in	0196		in	199		in	0.35	122	in
	9. <sup>h</sup> 4. <sup>m</sup>	85° 27′	0.01 0.01	9 <sup>h</sup> 4 <sup>m</sup>	85° 26′	10.01	9 <sup>h</sup> 4 <sup>m</sup>	85° 26′	0.01 0.01	9 <sup>h</sup> 4 <sup>m</sup>	85° 27′	0.01 0.01
ì	25.28	9.46	-6 + 3	29.77	61.92	-2 +11	37.39	58.70	+8 + 1	45.23	1.37	+4 -10
2	25.37	9.17.	-5 + .7	. 29.98	61.74	+1 +11	37.66	58.70	+8 - 4	45.46	1.56	+1 -11.
3	25.46	8.87	-3 +10	30.19	6r.55	+5 + 9.	37.93	58.70	+6 - 8	45.70	1.75	-3 - 9
4	25.56	8.58	0 +11	30.41	61.37	+7 + 5	38.20	58.70	+3 -10	45.93	1.95	-7 - 5
5.	25.66	8.30	+3 +10	30.63	61.20	<del>48</del> o	38.48	58.72	-ı -ıo	46.16	2.15	-8 - ı
6	25.77	8.01	+6 + 8	30.85	61.03	+8 - ŝ	38.75	58.74	<b>-4</b> - 7	46.38	2.36	-8 + 4
7	25.88	7.73	+8 + 3	31.08	60.87	+5 - 9.	39.02	58.77	-7 - 3	46.60	2.58	-7 + 7
8	25.99	7.45	+:9 - 2	31.31	60.71	+2 -10	39.29	58.80	-8 + 1	46.82	2.80	-4. + 8
9	26.11	7.17	+7 - 6	31.54	60.56	-2 9	39.57	58.84	-8 + 5	47.04	3.02	0 + 7
10	26.24	6.89	+4 - 9	31.77	60.41	-6 - 6	39.84	58.89	-5. + 8	47.25	3.25	+2 + 5
ΙΊ	26.36	6.62	0 —10	32.00	60.27	-8 - ı	40.10	58.94	-2 + 8	47.46	3.49	+5 + 1
12	26.50	6.35	-4 - 8	32.24	60.14	-8 + 3	40.37	59.00	+1 + 7	47.67	3.73	+6 - 3
13	26.63	6.08	7 -4	32.48	60.01	-7 + 7	40.64	59.07	+3 +4	47.87	3.97	+5 - 6
14	26.77	5.82	-8 + 1	32.72	59.88	-4. + 8	40.90	59.14	+5 0	48.07	4.22	+4 - 8
15	26.92	5.56	-8 + 5	32.97	59.77	-1 + 8	41.17	59.22	+6 - 4	48.27	4.48	+2 - 9
16	27.07	5.30	-6 + 7	33.22	59.66	+2 + 6	41.43	59.31	+5 - 7	48.46	4.74	0 - 8
17	27.22	5.05	-3 + 8	33-47	59-55	+4 + 2	41.70	59.40	+4 - 9	48.65	5.01	-2 - 6
18	27.38	4.80	0 + 7	33.72	59.45	+6 - 2	41.96	59.50	+r - 9	48.84	5.28	-4 - 3
19	27.54	4.55	+3 + 4	33.97	59-35	+6 - 6	42.22	59.61	-r -8	49.02	5.55	-6 + 1
20	27.70	4.31	+5 0	34.23	59.26	+5 -8	42.48	59.72	-3 - 5	49.20	5.83	-6 + 6
21'	27.87	4.07	+6 - 4	34.48	59.18	+3 - 9	42.74	59.84	-5 - r	49.37	6.11	<del>-4</del> + 9
22	28.04	3.84	+5 - 7	34.74	59.11	+1 -9	43.00	59.96	-6 + 3	49.54	6.40	-2 +12
23	28.22	3.61	+4 - 9	35.00	59.04	-2 - 7	43.26	60.09	-5 + 7	49.70	6.69	+1 +12
24	28.40	3.38	+2 - 9	35.26	58.98	-4 - 4	43.51	60.23	-4 +ro	49.86	6.99	+4 +10
25	28.59	3.16	-ı - 8	35.53	58.92	<u>-5</u> 0	43.76	60.38	—I <b>+</b> I2	50.02	7.29	+7 + 6
26	28.78	2.94	-3 - 6	35-79	58.87	-6 + 4	44.01	60.53	+2_+11	50.17	7.59	+9 + 1
27	28.97	2.73	-5 - 2	36.06	58.83	-5 + 8	44.26	60.69	+6 + 8	50.32	7.90	+8 - 4
28	29.17	2.52	-6 + 2	36.32	58.79	-3 +10	44.51	60.85	+8 + 3	50.47	8.21	+6 - 8
29	29.36	2.32	-5 + 6	36.59	58.76	0 +11.	44.75	61.02	+8 - 2	50.61	8.53	+3 -11
30	29.57	2.12	<u>-4</u> + 9	36.86	58.73	+3 +10	44-99	61.19	+7 - 6	50.74	8.84	<b>-2</b> -IO
31	29.77	1.92	-2 +11	37.12	58.71	+6 + 6	45.23	61.37	+4 -10	50.87	9.17	-5 - 7

+8 + 1

 $\alpha_{1947.0} = 9^h 4^m 47.04$ 

37.39 58.70

 $\delta_{1947.0} = -85^{\circ} 27' 14.67$ 

51.00

Sd)	E	Octantis	5 <sup>m</sup> 38
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		Janua	r		Februa	ır		März			April	
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	C Glieder
dia	4000	12	in	3 33	3 445	in	200	1	in	9.323	33,413	in
	12 <sup>h</sup> 49 <sup>m</sup>	84° 49′	10.01	12 <sup>h</sup> 49 <sup>m</sup>	84° 49′	10.01	12 <sup>h</sup> 49 <sup>m</sup>	84° 49′	10.0 10.0	12 <sup>h</sup> 49 <sup>m</sup>	84° 50′	10.01
I	6.62	44.32	-8 + 7	14.18	49.65	+3 +10	19.16	58.31	+5 + 7	21.65	10.01	+5 - 9.
2	6.88	44.40	-7.+10	14.39	49.90	+6 + 6	19.29	58.67	+7 + 3	21.68	10.40	+1 -11
3	7.14	44-49	-4 + 12	14.61	50.16	+8 + 1	19.42	59.03	+8 - 3	21.70	10.79	-2 -10
4	7.40	44.59	0 +11	14.82	50.43	+8 - 5	19.55	59-39	+7 - 7	{21.72 21.73	11.56	-5 - 7 -7 - 4/
5	7.66	44.69	+4 + 8	15.02	50.70	+6 - 9	19.67	59.75	+4 -10.	21.74	11.94	<i>−</i> 7 °
6	7.92	44.80	+7 + 3	15.23	50.97	.+2 -11	19.79	60.11	0 —11	21.74	12.33	-6 + 4
7	8.18	44.91	+8 - 2	15.43	51.25	-1 -11	19.90	60.48	-3 - 9	21.74	12.71	-3 + .6
8	8.43	45.03	+7 - 7	15.63	51.54	-5 <b>-</b> 9	20.02	60.84	-6 - 6	21.74	13.09	0 + 7
9	8.68	45.16	+5 -11	15.83	51.83	$-7^{\circ} - 5$	20.12	61.21	-7 - 3	21.73	13.47	+2 + 6
10	8.94	45.30	+112	16.02	52.12	<i>−</i> 7 <i>−</i> 1	20.23	61.58	-7 + 1	21.72	13.85	+5 + 4
ΙΙ	9.19	45.44	-2 -11	16.21	52.41	-6. + 2	20.33	61.96	-5 + 4	21.71	14.23	+7 + 2
12	9.45	45.58	-5 - 8	16.41	52.71	-4 + 5	20.43	62.33	-2 + 6	21.70	14.62	+7 : 1
13	9.70	45.73	-7 - 4	16.59	53.01	-1 + 6	20.53	62.71	+1 + 6	21.68	14.99	+6 - 4
14	9.95	45.89	<b>−7</b> . •	16.78	53.32	+2 + 6	20.62	63.08	+4 + 5	21.66	15.37	+4 - 5
15	10.20	46.05	-5 + 3	16.96	53.63	+5 + 4	20.71	63.46	<del>+6</del> + 3	21.63	15.75	+1 - 6
16	10.45	46.22	-3 + 5	17.14	53.94	+6 + 2	20.80	63.84	+7 + 1	21.60	16.12	-2 - 6
17	10.69	46.40	0 + 6	17.31	54.26	+7 - I	20.88	64.22	+7 = 2	21.57	16.49	-5 - 4
18	10.94	46.58	+3 + 5	17.48	54.58	+6 - 3	20.96	64.60	+5 - 5	21.53	16.87	<b>−</b> 7 ∘
19	11.18	46.76	+5 + 4	17.65	54.91	+5 - 5	21.03	64.99	+3 - 6	21.49	17.23	-8 + 4
20	11.42	46.95	+7 + 2	17.81	55.24	+2 -6	21.10	65.37	0 - 6	21.44	17.60	-7 + 7
21	11.66	47.15	+7 - i	17.97	55-57	-1 - 6	21.16	65.75	-3 - 5	21.39	17.97	-5 +10
22	11.90	47-35	+6 -4	18.13	55.90	-4 - 4	21.22	66.14	-6 - 3	21.34	18.33	-2 +11
23	12.14	47.56	+4 - 5	18.29	56.24	—6 — г	21.28	66.53	-8 + 1	21.28	18.70	+2 + 9
24	12.38	47-77	+1 - 6	18.44	56.58	-8 + 3	21.34	66:91	-8 + 5	21.23	19.06	+6+5
25	12.61	47.99	-25	18.59	56.92	-8 + 6	21.39	67.30	-6 + 8	21.16	19:41	+8 + 1
26	12.84	48.21	-5 - 3	18.74	57.27	-6 +10	21.44	67.68	-4 +10	21.10	19.77	+8 - 4
27	13.07	48.44	-7 0	18.88	57.61	-3 <del>+</del> 11	21.49	68.07	0 +10	21.03	20.12	+6 - 8
28	13.30	48.67	-8 + 4	19.02	57.96	+1 +10	21.53	68.46	+4 + 8	20.96	20.47	+3 -11
29	13.52	48.91	-7 + 8	19.16	58.31	+5 + 7	21.57	68.85	+7 + 4	20.88	20.82	-ı -ıı
30	13.74	49.15	-5 .+II				21.60	69.23	+8 — ı	20.80	21.16	<b>-4</b> - 9
31.	13.96	49.40	. <del>-</del> 1 +11		1000	100	21.63.	69.62	+7 - 6	20.72	21.51	-6 - 6
32	14.18	49.65	+3 +10				21.65	70.01	+5 - 9	138 (2)	2 7	
3	De Carrie		000000	-13,00	ST 1985 A	1000-100	9	0 (05)	91.680.04.5	10/1/2018	33 F &	(4 202)

$$\alpha_{1947.0} = 12^{h} \ 49^{m} \ 11\overset{5}{.}30$$

$$\delta_{1947.0} = -84^{\circ}$$
 50' 10''00

Sd)	( Octantis	5 <sup>m</sup> 38
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m		Mai			Juni	· Outure	J.,	Juli			Augus	t
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	C Glieder
-000	.55%	1825	in	1000		in	100000	W 5 75	in	- Arais	S 31 (S)	in
	12h49m	84° 50′	10.0	12 <sup>h</sup> 49 <sup>m</sup>	84° 50′	0,01 0,01	12 <sup>h</sup> 49 <sup>m</sup>	84° 50′	0.01 0.01	12 <sup>h</sup> 48 <sup>m</sup>	84° 50′	10.0 10.0
.1	20.72	21.51	-6 - 6	16.71	30.52	2 + 6	10.75	35.17	+5 + 4	63.94	34.77	+.5 - 5
2	20.64	21.85	-7 - 2	16.53	30.75	+1 + 6	10.53	35.25	+7 + 1	63.73	34.67	+3 - 6
3	20.55	22.19	-6 + 2	16.36	30.98	+3 + 5	10.31	35.31	+7 - 1	63.53	34.56	0-7
4	20.46	22.52	-4 + 5	16.18	31.19	+5 + 3	10.09	35.37	+6 - 4	63.32	34.44	-3 - 5
5	20.36	22.85	-2 + 6	16.00	31.41	+7 - - I	9.87	35.43	+5 - 5	63.12	34-32	<u>-6 - 2</u>
6	20.27	23.18	+1 + 6	15.82	31.62	+7 - 2	9.65	35.48	+2 = 6	62.92	34.20	-8 → 2
7.	20.16	23.51	+4 + 5	15.64	31.82	+6 - 4	9.43	35.52	-1 - 6	62.72	34.07	-8 -⊩ 6
8	20.06	23.83	+6 + 3	15.45	32.02	+4 - 6	9.20	35.56	-4 - 4	62.52	33-93	-7 +10
9	19.95	24.15	+7 0	15.26	32.21	+1 - 6	8.98	35.59	-7 - I	62.32	33.79	-4 +12
10	19.84	24.46	+7 - 3	15.07	32.40	-3 - 5	8.76	35.62	<b>-9</b> + 3	62.12	33.65	-I \+I2
11	19.73	24.77.	+5 - 5	14.88	32.58	-6 - 3	8.53	35.64	-8 + 8	61.93	33.50	+3 +10
-12	19.62	25.09	+3 - 6	14.69	32.76	-8 + 1	8.31	35.65	-6 + i	61.74	33.35	+6 +- 6
13	19.50	25.39	0 - 6	14.49	32.94	-9 + 5	8.09	35.66	3 +12	61.55	33.19	-+-8 - <del>-</del> 4- 1
14	19.38	25.70	-4 - 4	14.30	33.10	<b>-8 +</b> 9	7.87	35.67	+1 +12	61.36	33.03	+8 ~ 5
15	19.25	26.00	-7 - I	14.10	33.27	<u>-5</u> +12	7.64	35.67	+5 + 8	61.18	32.86	+5 - 9
16	19.13	26.30	-8 + 3	13.90	33-43	-1 +12	7.42	35.66	+7 .+ 3	60.99	32.68	+2' -11
17	18.99	26.59	-8 + 7	13.70	33.58	+3 +10	7.20	35.65	+8 - 2	60.82	32.50	-2 -II
18	18.86	26.88	-6 +IO	13.50	33.73	+7 + 5	6.98	35.63	+7 - 7	60.64	32.32	-6 - 8
19	18.72	. 27.17	-3 +11	13.29	33.87	+8 0	6.76	35.60	+4 -11	60.46	32.13	-7 - 4
20	18.58	27.45	+1 +10	13.09	34.01	+8 - 5	6.54	35.57	0 -12	60.29	31.94	-7 0
21	18.44	27.73	+5 + 7	12.88	34.15	+6 -10	6.32	35.54	-4 -10	60.11	31.74	-6 + 3
22	18.29	28.00	+8 + 3	12.68	34.27	+3 -12	6.09	35-49	-6 - 7	59.95	31.54	-3 + 5
23	18.15	28.27	+9 - 3	12.47	34.40	-I -I2	5.87	35.45	-7 - 3	59.78	31.33	0 + 6
24	18.00	28.54	+7 - 7	12.26	34.51	-5 - 9	5.66	35-39	-7 + 1	59.62	31.12	+4 + 5
25	17.84	28.80	+5 -11	12.05	34.62	-7 - 5	5.44	35.33	-4. + 4	59.46	30.91	+6 + 3
26	17.69	29.06	+I -I2	11.83	34.73	-7 - I	5.22	35.27	-2 + 5	59.31	30.69	+7 0
27	17.53	29.32	-3 -10	11.62	34.83	-6 + 2	5.01	35.20	+2+5	59.16	30.47	+7 - 3
.28	17.37	29.56	-6 - 7	11.40	34.92	-3 + 5	4.79	35.12	+4 .1.4	59.01	30.24	+6 - 5
29	17.21	29.81	-7 - 3	11.18	35.01	0+6	4.58	35.04	+6 + 2	58.86	30.01	+4 - 7
30	1704	30.05	-7 + I	10.96	35.09	+3 + 5	4.37	34.96	+7 - 1	58.72	29.78	+1 - 7
31	16.87	30.29	-5 + 4	10.75	35.17	+5 + 4	4.15	34.87	+7 - 3	58.58	29.54	-2 - 6
32	16.71	30.52	-2 + 6	× 200	1831	10.00	3.94	34.77	+5 - 5	58.44	29.30	-5 - 4

 $\alpha_{1947.0} = 12^h 49^m 11.30$ 

 $\delta_{1947.0} = -84^{\circ}$  50' 10"00

Sd)	ι Octantis	5 <sup>m</sup> 38
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7		Septeml	ner	Rel Alleri	Oktobe	r Octabl	The second	Novemb	er	Dezember		
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR,	Dekl.	© Glieder	AR.	Dekl.	© Glieder
1000	AI.	Deal.	in	Alt.	Den.	in	AIM	Deki.	in	AI.	Deki.	in
	12 <sup>h</sup> 48 <sup>m</sup>	0.0/	8 0.01 0.01	12 <sup>h</sup> 48 <sup>m</sup>	- 0.0/		- h.om	0.01	8 0.01 0.01	h m	0.0/	0.01 0.01
1	12 40	04 50	0.01 0.01	12 48	84 50	0.01   0.01	12 <sup>h</sup> 48 <sup>m</sup>	84 50	0.01 0.01	12 <sup>h</sup> 49 <sup>m</sup>	84° 50′	0.01 0.01
I	58.44	29.30	<b>-5</b> - 4	56.14	20.84	-8 + 6	57.96	11.85	+3 +10	3.52	6.10	+8 - 2
2	58.31	29.05	-7 0	56.13	20.53	-6 + 9	58.09	11.59	+6 + 6	3.75	5.99	+7 - 7
3	58.18	28.81	-8 + 4	56.12	20.23	-3 +11	58.22	11.34	+8 + 1	3.97	5.89	+4 -10
4	58.06	28.55	-7 + 8	*)56.12	19.93	0 +11.	58.36	11.09	+8 -4	4.19	5.79	0 -11
5	57.93	28.30	-5 +11	56.13	19:62	+4 + 9	58.50	10.85	+6 8	4.41	5.70	-4 -10
6	57.82	28.04	-2 +12	56.14	19.32	+7 + 4	58.65	10.61	+3 -10	4.63	5.61	-6 - 6
7	57.70	27.78	+2 +11	56.15	19.01	+8 - 1	58.80	10.37	-I -IC	4.87	5.53	-8 - 2
8	57-59	27.52	+5 + 8	56.17	18.71	+7 - 5	58.95	10.14	-5 - 8	5.11	5.45	-7 + 2
9	57.48	27.25	+7 + 3	56.19	18.40	+4 - 9	59.11	9.91	<b>-7 -4</b>	5.35	5.38	-5 + 5
10	57.37	26.98	+8 - 2	56.21	18.10	+1 -10	59.27	9.69	-8 0	5.60	5.32	-2 + 6
11	57.27	26.70	+6 - 7	56.24	17.80	-3 - 9	59.44	9.47	-6 + 3	5.85	5.26	÷2 + 6
12	57.18	26.43	+3 -10	56.28	17.50	-6 - 7	59.61	9.25	-4 + 6	6.10	5.21	+4 + 4
13	57.08	26.15	-I -IO	56.32	17.20	<b>-7</b> ≠ 3	59.78	9.04	-1 +6	6.35	5.17	+7 + 2
14	57.00	25.87	-4 - 9	56.36	16.90	-7 + I	. 59.96	8.83	+3 + 6	6.60	5.13	+7 - I
15	56.91	25.59	-7 - 5	56.41	16.60	-5 + 4	60.14	8.63	+5 + 4	6.85	5.10	+7 - 4
16	56.83	25.30	-8 - I	56.47	16.31	-2 + 6	60.33	8.43	+7 + 1	7.11	5.08	+5 - 6
17	56.76	25.01	-7 + 2	56.53	16.01	+1 +6	60.52	8.23	+8 - 2	7.37	5.06	+3 - 7
18	56.69	24.72	-4 + 5	56.59	15.71	+4 + 5	60.70	8.04	+6 - 5	7.62	5.05	0 - 7
19	56.62	24.43	-ı + 6	56.66	15.42	+6 + 2	60.90	7.86	+4 - 7	7.88	5.04	<b>-4</b> - 5
20	56.56	24.14	+2 + 6	56.73	15.13	+7 0	61.09	7.68	+1 - 7	8.14	5.04	-6 - 2
21	56.50	23.85	+5 + 4	56.80	14.84	+7 - 3	61.29	7.51	-2 - 6	8.40	5.05	<u>-8 + 2</u>
22 .	56.44	23.55	+7 + 1	56.89	14.56	+6 - 6	61.49	7.35	-5 - 4	8.66	5.06	-9 + 6
23	56.39	23.26	+8 - 2	56.97	14.27	+4 - 7	61.70	7.19	-7 - 1	8.92	5.08	-7 +10
24	56.34	22.96	+7 - 5	57.06	13.99	0 - 7	61.91	7.03	-8 + 3	9.18	5.11	-4 +12
25	56.30	22.66	+5 - 6	57.16	13.72	-3 - 6	62.12	6.88	<del>-8</del> + 8	9.45	5.14	-I +I2
26	56.26	22.35	+2 - 7	57.26	13.44	-6 - 3	62.34	6.74	-6 +11	9.71	5.18	+4: 4-10
27	56.23	22.05	-1 - 7	57.37	13.17	-8 +'r	62.58	6.60	-3 +12	9.98	5.22	+7 + 6
28	56.20	21.75	<b>-4</b> - 5	57.48	12.90	-8 + 5	62.82	6.47	+1 +11	10.24	5.28	+8 0
29	56.17	21.44	-7 2	57.59	12.63	-7 + 8	63.06	6.34	+5 + 8	10.50	5.33	+8 5
30	56.15	21.14	-8 + 2	57.71	12.37	-5 +11	63.29	6.22	+8 + 3	10.77	5.40	+6 - 9
31	56.14	20.84	-8 + 6	57.83	12.10	-1 +n	63.52	6.10	+8 - 2	11.03	5.47	+2 -11
32	1878	46°46,		57.96	11.85	+3 +10		3-500		11.29	5-55	-2 -11
S2230	1880 Lessy	Sec. 195	16863 6 31	THE RESERVE	570,000	1000 a 1000 a	2000	18 TO 8 17 8 18	1 C. 1 0.50 K. 5	Service Co.	JS8507205	100

$$\alpha_{1947.0} = 12^{h}.49^{m}$$
 11.30  $\delta_{1947.0} = -84^{\circ}$  50' 10.400

<sup>\*)</sup> Tag der doppelten unteren Kulmination: Okt. 4.

Se)	20 G	. Octantis	6 <sup>m</sup> .52
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750	-	1			1000	G. Octa	HOIS (	0.52	S (2007)	(A) (A) (A)	4/83.4	COLOR MARIE
Tag		Janua	r		Februa	ir		März		April		
145	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	C Glieder
			in		-	in		54	· in		-	in
	14 <sup>h</sup> 59 <sup>m</sup>	87° 55′	0.01 0.01	14 <sup>h</sup> 59 <sup>m</sup>	87° 55′	0.01 0.01	15 <sup>h</sup> 0 <sup>m</sup>	87° 55′	0.01 0.01	15 <sup>h</sup> 0 <sup>m</sup>	87° 56′	0.01 0"01
1	23.50	51.12	-23 + I	43.95	50.24	- 1 +11	2.61	54.01	+ 5 +10	19.28	2.21	+17 - 6
2	24.10	51.00	-22 + 5	44.64	50.30	+8+9	3.23	54.22	+13 + 7	19.71	2.52	+11 - 9
3	24.71	50.89	-17 + 9	45-33	50.36	+16 + 6	3.85	54-43	+19 + 3	20.14	2.84	+ 3 -11
4	25.33	50.79	- 7. +11	46.02	50.44	+20 + I	4.46	54.65	+20 - 2	20.56	3.16	- 5 -II
5	25.95	50.69	+ 3 +10	46.70	50.52	+19 - 5	5.07	54.86	+16 - 7	20.96	3.48	12 <del></del> 8
6	26.57	50.60	+13 + 8	47:39	50.60	+14 - 9	5.67	55.09	+ 8 -10	21.36	3.81	-15 - 4
7	27.20	50.52	+19 + 3	48.07	50.69	+ 6 -11	6.27	55.32	0 -11	21.76	4.13	-15 0
8	27.84	50.44	+21 - 2	48.76	50.79	- 3 -12	6.86	55.55	- 8 −ıo	22.14	4.46	-12 + 3
9	28.48	50.36	+18-7.	49-44	50.89	-10 - 9	7.45	55.78	-13 - 7	22.51	4.80	-6+6
10	29.12	50.29	+11 -11.	50.12	51.00	-14 - 6	8.03	56.03	-15 - 3	22.88	5.13	+ 1 + 8
II	29.77	50.23	+ 3 -12	50.80	51.11	-14 - 2	8.61	56.27	-14 + 1	23.24	-5-47	+7 + 8
12	30.42	50.17	- 5 -11	51.48	51.22	-12 + 2	9.18	.56.52	-9+5	23.59	5.81	+13 + 6
13	31.07	50.12	-11 - 8	52.16	51.35	<b>-7</b> + 5	9.75	56.77	-3+7	23.94	6.14	+16 + 4
14	31.73	50.08	-14 - 4	52.84	51.47	0.+7	10.31	57.02	+ 4 + 8	24.27	6.49	+16 + I.
15	32.38	50.04	-13 o	53.51	51.61	+ 7 + 8	10.87	57.28	+10 + 7	24.60	6.83	+13 - 2
16.	33.05	50.00	-10 + 4	54.18	51.75	+12 + 6	11.42	57-54	+15 + 5	24.91	7.17	+8-5
17	33.71	49.97	-4 + 6	54.85	51.89	+15 + 4	11.96	57.81	+16 + 3	25.22	7.52	0-7
18	34.38	49.95	+ 2 + 7	55.51	52.04	+16.+1	12.49	58.08	+15 - 1	25.52	7.87	-8 - 7
19	35.05	49.93	+8+7	56.17	52.20	+14 - 2	13.02	58.35	+12 - 4	25.81	8.21	-15 - 5
20	35.73	49.92	+13 + 6	56.83	52.36	+10 - 5	13.55	58.63	+6-6	26.09	8.57	-20 - 2
21	36.41	49.92	+15 + 3	57.49	52.52	+3-6	14.06	58.91	- 2 - 7	26.36	8.92	-22 + 2
22	37.09	49.92	+15 0	58.14	52.69	-5-7	14.57	59.20	-10 - 6	26.63	9.27	-18 + 6
23	37.77	49.92	+12 - 2	58.80	52.86	-13 - 6	15.07	59.49	-17 - 4	26.88	9.62	-11 + 9
24	38.45	49.94	+7-5	59.44	53.04	-19 - 3	15.57	59.77	-2I - I	27.13	9.98	— I +IO
25	39.14	49.95	0-7	60.08	53.23	-22 ÷. I	16.06	60.07	-20 + 4	27.37	10.33	+9+9
26	39.82	49.98	-9-6	60.72	53.41	-20 + 5	16.54	60.36	-16 + 7	27.59	10.69	+17 + 6
27	40.51	50.01	-16-5	61.36	53.61	-14 + 9	17.02	60.66	- 8 +io	27.81	11.04	+21 + 1
28	41.19	50.04	-2I - I	61.98	53.81	- 5 +10	17.49	60.96	+ 2 +10	28.02	11.40	+20 - 4
29	41.88	50.08	-23 + 3	62.61	54.01	+ 5 +10	17.95	61.27	+11 + 8	28.22	11.76	+15 - 8
30	42.57	50.13	-19 + 7		100		18.40	61.58	+18 + 4	28.40	12.12	+ 7 -11
31	43.26	50.18	<b>—12</b> +10				18.84	61.89	+20 - 1	28.58	12.48	- I -II
32	43.95	50.24	- r+11		100	A PROPERTY.	19.28	62.21	+17 - 6	300	No.	
State S	E	12 Table 1980	1 01	CONTRACT		2500	02.000			358	01	100

 $\alpha_{1947.0} = 14^h 59^m 58.05$ 

 $\delta_{1947.0} = -87^{\circ}$  56' 10"16

Se)	20 G.	Octantis	6.52
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П		Mai			Juni			Juli			Augus	t
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
· Pire	1237	1022	in	2726	623	in			in			in
	15 <sup>h</sup> 0 <sup>m</sup>	87° 56′	10.01	15 <sup>h</sup> 0 <sup>m</sup>	87° 56′	0.01 0.01	15 <sup>h</sup> 0 <sup>m</sup>	87° 56′	10.01	14 <sup>h</sup> 59 <sup>m</sup>	87°56′	0.01 0.01
I	28.58	12.48	- I -II	29.32	23.74	-10 + 4	21.43	32.41	+8+7	66.65	37.40	+15 - 1
2	28.75	12.84	-9 - 9	29.19	24.07	4 + 6	21.04	32.65	+13 + 6	66.11	37.47	+11 - 4
3	28.92	13.20	14 6	29.05	24.40	+ 3 + 7	20.65	32.88	+15 + 4	65.56	37.54	+5-6
4	29.07	13.55	-15 - 2	28.89	24.73	+9+7	20.24	33.10	+16 + 1	65.01	37.61	-3-7
5	29.21	13.91	-13 + 2	28.73	25.05	+13 + 6	19.83	33.32	+14 - 2	64.46	37.67	-II - 6
6	29.35.	14.27	- 8 + 5°	28.56	25.37	+16 + 3	19.42	33.54	+9-5	63.91	37.72	-18 - 4
7	29.47	14.63	-2+7	28.38	25.69	+15 0	18.99	33.75	+2-6	63.35	37-77	<b>-22</b> 0
8	{29.59 29.69	14.99	+ 5 + 81 +11 + 71	28.18	26.01	+12 - 3	18.56	33.95	-6-7	62.79	37.81	-23 + 4
9	29.79	15.71	+15 + 5	27.98	26.32	+6-5	18.12	34.15	-15 - 5	62.23	37.85	-19 + 8
10	29.87	16.07	+16 + 2	27.77	26.63	-2-7	17.68	34.35	-2·I - 2	61.67	37.88	-11 +11
11	29.95	16.43	+14 - 1	27.56	26.94	-11 - 6	17.23	34.54	-24 + 2	61.12	37.90	- I +I2
12	30.01	16.79	+10 - 4	27.33	27.25	-18 - 4	16.77	34.73	-22 + 6	60.56	37.92	+ 9 +10
13	30.07	17.15	+ 3 - 6	27.10	27.55	-23 - 1	16.31	34.91	-16 +10	59.99	37.93	+17 + 6
14	30.12	17.51	-5-7	26.85	27.85	-24 + 3	15.85	35.09	- 7 +12	59.43	37.94	+20 0
15	30.15	17.86	-13 - 6	26.60	28.14	-20 + 8	15.38	35.26	+ 4 +11	58.87	37.94	+18 - 5
16	30.18	18.22	-20 - 3	26.34	28.44	-11 +11	14.90	35.43	+13 + 8	58.30	37.94	+12 - 9
17	30.20	18.57	-23 + 1	26.07	28.72	- 1 #11	14.42	35.59	+20 + 3	57.74	37.93	+ 4 -12
18	30.21	18.93	-21 + 5	25.79	29.01	+10+10	13.93	35.75	+21 - 2	57.17	37.91	- 5 -II
19	30.20	19.28	-15 + 9	25.50	29.29	+18 + 5	13.43	35.90	+17 - 8	56.61	37.89	-12 - 9
20	30.19	19.63	- 6 +11	25.21	29.57	+21 .0	12.93	36.05	+10 -11	56.04	37.86	-15 - 5
21	30.17	19.98	+ 5 +10	24.90	29.85	+21 - 5	12.43	36.19	0 —12,	55.48	37.82	<b>−i</b> 4 o
22	30.14	20.33	+14 + 7	24.59	30.13	+15 -10	11.93	36.33	- 7 -rr	54.92	37.78	-10 + 3
23	30.10	20.68	+20 + 3	24.27	30.40	+ 6 -12	11.42	36.46	-13 - 7	54-37	37.74	-3+6
24	30.06	21.03	+22 - 2	23.94	30.66	- 3 -i2	10.91	36.59	-15 - 3	53.81	37.69	+ 4 + 7
25	30.00	21.37	+18 - 7	23.61	30.92	—10 <b>-</b> 410	10.39	36.71	-12 + I	53.26	37.63	+11 + 7
26	29.93	21.72	+11 -11	23.26	31.18	-14 - 6	9.86	36.82	-7 + 4	52.71	37.57	+15 + 5
27	29.85	22.06	+ 2 -12	22.91	31.44	-14 - I	9.34	36.93	-1 + 6	52.16	37-50	+17 + 2
28	29.77	22.40	- 6 -ı ı	22.55	31.69	-11 + 2	8.8r	37.03	+ 6.+7	51.61	37.42	+17 - 1
29	29.67	22.73	-12 - 8	22.18	31.93	-5 + 5	8.27	37.13	+12 + 6	51.06	37-34	+14 - 4
30	29.56	23.07	-15 - 4	21.81	32.17	+ 1 + 7	7.73	3722	+15 + 4	50.52	37.26	<b>→ 8 − 6</b>
31	29.45	23.41	-14 o	21.43	32.41	+ 8 + 7	7.20	37.31	+17 + 1	49.98	37.16	0 - 7
32	29.32	23.74	-10 + 4		14.5	6.0	6.65	37.40	+15 - 1	49.44	37.07	-8-7
200	270000	CO. 0755-55	Advisors.	125 F. 18	SKOR	AND THE S	5000000	50000	THE PERSON NAMED IN	12. M. M.	R 3 400	30 5 200

225\*

## Scheinbare Sternörter 1947

Obere Kulmination Greenwich

Sel	20	G.	Octantis	6m52

Se) 20 G. Octantis 6.52												
Tag		Septem	ber		Oktob	er		Noveml	oer		Dezemb	er
Lag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
130		_	in	53/2/3	_	in	181		in	137	15 <u>2</u> 10 10	in
	14 <sup>h</sup> 59 <sup>m</sup>	87° 56′	0.01 0.01	14 <sup>h</sup> .59 <sup>m</sup>	87° 56′	0.01 0.01	14 <sup>h</sup> 59 <sup>m</sup>	87° 56′	0.01 0.01	14 <sup>h</sup> 59 <sup>m</sup>	87° 56′	10.01
·I	49.44	37.07	-8-7	35.89	31.75	-22 o	30.30	22.92	- ı +ıı	35.50	14.16	+20 + 3
2	48.91	36.96	-15 - 5	35.56	31.51	-20 + 5	30.30	22.61	+ 9 +10	35.85	13.90	+21 - 2
3	48.38	36.85	-20 - 2	35.23	31.26	-15 + 8	30.32	22.31	+16 + 6	36.21	13.64	+17 - 7
4	47.86	36.74	-22 + 2	34.91	31.01	- 7 +II	30.34	22.00	+20 + I	36.58	13.39	+ 9 -11
5	47.34	36.62	-20 + 7	34.60	30.75	+ 2 +11	30.38	21.70	+19 - 4	36.96	13.14	0 —12
6	46.83	36.49	-14 +10	34.31	30.49	+11 + 9	*)30.43	21.39	+13 - 8	37-35	12.90	- 8 -10
7	46.32	36.36	- 5 +12	34.02	30.23	+18 + 5	30.49	21.08	+ 5 — 1 í	37.75	12.66	-14 - 7
8	45.81	36.22	+ 5 +11	33.74	29.96	+19 - 1	30.56	20.78	. – 4 –11	38.16	12.42	-16 - 3
9	45.31	36.08	+14 + 8	33-47	29.70	+16 - 6	30.65	20.47	11 - 9.	38.58	12.19	<b>-13</b> → 2
10	44.81	35.94	+19 + 3	33.21	29.42	+10 - 9	30.74	20.16	-165	39.01	11.96	-8 + 5
11	44.32	35.79	+19 - 2	32.96	29.15	+ 1 -11	30.85	19.86	-16 - 1	39-45	11.74	-1 + 7
12	43.84	35.63	+14 - 7	32.73	28.87	- 8 -IO	30.97	19.56	-12 + 3	39.90	11.52	+7+7
13	43.36	35.47	+ 7 -10.	32.50	28.59	-14 - 8	31.11	19.26	-6+6	40.35	11.30	+13 + 6
14	42.88	35-30	- 2 -11	32.28	28.31	-16 <b>-</b> 4	31.25	18.96	+ 1 + 7	40.82	11.09	+16.+4
15	42.42	35.13	-1010	32.08	28.03.	-15 + 1	31.41	18.66	+9+7	41.30	10.88	+18 + 1
16	41.96	34.95	-15 - 6	31.88	27.74	-10 + 4	31.58	18.36	+14 + 5	41.79	10.68	+16 - 2
17	41.50	34-77	-16 - 2	31.70	27.45	-3 + 7	31.76	18.06	+17 + 3	42.28	10.48	+11 - 5
18	41.05	34.59	-13 + 2	31.53	27.16	+ 5 + 7	31.95	17.77	.+18 o	42.78	10.29	+4-7
19	40.61	34.40	-7 + 5	31.36	26.87	+12 + 7	32.16	17.47	+14 - 3	43.29	10.10	-4-7
20.	40.17	34.20	+ 1 + 7	31.21	26.57	+16 + 4	32.37	17.18	+ 9 - 6	43.81	9.91	-12 - 6
21	39.75	34.00	+8+7	31.07	26.28	+18 + 1	32.60	16.90	+1-7	44.34	9.74	-19 - 4
22	39-33	33.80	+14 + 6	30.95	25.98	+17 - 2	32.84	16.61	-7 - 7	44.87	9.56	<b>-2</b> 3 o
23	38.91	33.59	+17 + 3	30.83	25.68	+13 - 5	33.09	16.33	-15 - 5	45.41	9.39	-23 + 5
24	38.51	33-37	+18 0	30.73	25.38	+6-7	33-35	16.05	<b>→21 — 2</b>	45.96	9.23	-19 + 9
25	38.11	33.15	+15 - 3	30.63	25.07	- 2 <b>-</b> 7	33.63	15.77	-23 + 2	46.52	9.07	-11 +12
26	37.72	32.93	+10 - 5	30.55	24.77	-10 ÷ 7	33.91	15.50	-21 + 6	47.09	8.92	0 +12
27.	37.34	32.70	+3-7	30:48	24.46	-17 - 4	34.21	15.22	-15 +10.	47.66	8.77	+10 +10
28	36.96	32.47	-5-7	30.42	24.15	-21 - 1	34.51	14.95	- 5 +11	48.23	8.62	+17 + 6
29	.36.60	32.23	-13 - 6	30.37	23.84	-22 + 3	34.83	14.68	+ 5 +11	48.81	8.49	+21 0
30	36.24	32.00	-19 - 3	30.34	23.54	-18 + 7	35.16	14.42	+14 + 8	49.40	8.35	+19 - 5
31	35.89	31:75	<b>-22</b> 0	30.31	23.23	-11 +io	35.50	14.16	+20 + 3	50.00	8.23	+13 -10
32				30.30	22.92	- 1 +11				50.60	8.11	+ 4 -12
1	Version III	50000	14 5 Sec.	350	Total Va	94 33 33	100 St. 100 St.	26 (523)	DINTO VESS	12,00	3 15 00 1	9 92 83 98 8

 $\alpha_{1947.0} = 14^{h} 59^{m} 58.05$ 

 $\delta_{1947.0} = -87^{\circ} 56'$  10"16

<sup>\*)</sup> Tag der doppelten unteren Kulmination: Nov. 6.

St)	26	G.	Octantis	6m13
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1000		T	1-3 6 -6	867 (12)		J G. Octo	X 6 6	7.13		Anril		
Tag		Janua	C P - 200 100	32-01-	Februa		(A) 38	März	A CONTRACTOR OF THE PARTY OF TH		April	
	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
		34	in B '''		-	in	111	_	in s   "			in
	16h40m	86° 16′	0.01 0.01	16 <sup>h</sup> 40 <sup>m</sup>	86° 16′	0.01 0.01	16 <sup>h</sup> 40 <sup>m</sup>	86° 16′	s "0.01	16 <sup>h</sup> 40 <sup>m</sup>	86° 16′	0.01 0.01
I	16.94	25.95	-13 - 4	26.94	20.65	- 6 +10	38.05	19.90	- 2 +II	50.09	23.54	+12 - 2
2	17.20	25.71	<b>-14</b> 0	27.32	20.55	0 +10	38.46	19.95	+ 4 +10	50.45	23.73	+10 - 6
3	17.46	25.48	-13 + 5	-27.69	20.46	+6+9	38.87	20.00	+9+6	50.81	23.92	+ 7 -10
4	17.73	25.25	<b>-</b> 9+8	28.07	20.38	+11 + 4	39.27	20.06	+12 + 2	51.16	24.11	+ 2 -11
5	18.00	25.03	- 3 +10	28.46	20.30	+13 - 1	39.68	20.12	+12 - 4	51.51	24.31	- 2 -IO
6	18.28	24.81	+ 4 +10	28.84	20.22	+12 - 6	40.08	20.18	+ 9 - 8	51.86	24.51	-6-7
7	18.56	24.59	+9+7	29.23	20.15	+ 9 -10	40.48	20.26	+ 5 -10	52.20	24.72	-8 - 3
8	18.85	24.38	+13 + 2	29.62	20.00	+ 4 -11	40.89	20.33	+ 111	52.54	24.93	-8 + 1
9	19.14	24.17	+13 - 3	30.01	20.03	- 1 -11	41.29	20.41	<b>-</b> 4 -10	52.88	25.15	6 + 5
10	19.44	23.97	+11 - 8	30.41	19.97	-5 - 8	41.68	20.50	-7-6	53.21	25.37	-3+7
	TO 54	00.55	+7-11	30.80	70.00	-7-4	42.08	20 70	-8-2	50.54	25.50	
II I2	19.74	23.77	OTES STORY	100.00000000000000000000000000000000000	19.92	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	42.48	20.59		53.54	25.59	0+9
24.34	20.04	23.57 23.38	+ 2 -II - 2 -IO	31.60	19.87	$-7 \circ -6 + 4$	42.88	20.69	-7+2 $-5+6$	53.87 54.20	25.81 26.04	+ 4 + 9 + 7 + 7
13 14	20.67	23.19	-5-7	31.99	19.79	-3 + 7	43.28	20.89	-1 + 8	54.52	26.27	+8+4
15	20.98	23.01	-7 - 3	32.39	19.76	0 + 8	43.67	21.00	+2+9	54.84	26.51	+8 0
		930 PM AV				38337	43.01	5336				
16	21.31	22.83	-7 + 2	32.79	19.74	+ 3 + 9	44.06	21.11	+ 5 + 8	55.15	26.75	+6-3.
17	21.63	22.66	-5 + 5	33.19	19.72	+6+7	44.45	21.23	+7+6	55.46	26.99	+3-6
18	21.96	22.49	-2+7	33.59	19.71	+ 8 + 5	44.84	21.35	+8+2	55.76	27.23	-1 - 8
19	22.30	22.33.	+ 1 + 9	34.00	19.70	+8+1	45.23	21.48	+ 8 - 1	56.06	27.48	-6 - 8
20	22.64	22.17	+ 4 + 8	34.40	19.70	+7-2	45.62	21.62	+6-5	56.36	27.73	-10 - 6
21	22.98	22.02	+6+6	34.80	19.70	+4-6	46.00	21.76	+2-7	56.65	27.99	-12 - 3
22	23.32	21.87	+8 + 3	35.21	19.71	o — 8	46.38	21.90	-3 - 8	56.94	28.25	-13 + 2
23	23.67	21.73	+8 o	35.61	19.72	-5 - 8	46.76	22.04	-7 - 7	57-23	28.51	-10 + 6
24	24.02	21.59	+6-3	36.02	19.74	-9-7	47.14	22.19	-rr - 5	57.51	28.77	-5+9
25	24.37	21.45	+3-6	36.43	19.76	-12 - 4	47.52	22:35	-13 - I	57:79	29.04	+ 1 +10
26	24.73	21.32	<b>-2-8</b>	36.83	19.79	-13 + 1	47.90	22.50	-12 + 4	58.06	29.31	+6+9
27	25.09	21.20	-7 - 8	37.24	19.82	<del>-11</del> + 5	48.27	22.67	<b>-</b> 9+8	58.33	29.58	+11 + 5
28	25.46	21.08	-rr - 6	.37.65	19.86	-7+9	48.64	22.83	- 3 +10	58.59	29.85	+13 0
29	25.82	20.96	-13 - 2	38.05	19.90	- 2 -1-11	49.01	23.00	+ 2 +10	58.85	30.13	+12 - 5
30	26.20	20.85	-13 + 3				49-37	23.18	+8+8	59.11	30.41	+9-9
31	26.57	20.75	-11 + 7			The said	49.73	23.36	+11 + 3	59.36	30.69	+ 4 -11
32	26.94	20.65	- 6 +10	1			50.09	23.54	+12 - 2	32.0		
0 K355	80/829	500000000	Out to the fi	Mary Cont.	Charles	CONTRACTOR IN	20000000	0010	STOLE.	8588 S88	KS 5785	

$$\delta_{1947.0} = -86^{\circ}$$
 16' 35"39

 $<sup>\</sup>alpha_{1947.0} = 46^{h} 40^{m} 43.09$ 

Obere Kulmination Greenwich

St) 2	26 G	. Octani	tis 6 <sup>m</sup> 1	3
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Contract to	#338 T			10.00	7 ·							
Tag	237	Mai		400	Juni		120	Juli		12	Augus	t
rag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
100			in	200		în	1000		in	Trans.	225	in
	16 <sup>h</sup> 40 <sup>m</sup>	86° 16′	0.01 0.01	16 <sup>h</sup> 41 <sup>m</sup>	86° 16′	0.01 0.01	16 <sup>h</sup> 40 <sup>m</sup>	86° 16′	0.01 0.01	16 <sup>h</sup> 40 <sup>m</sup>	86° 16′	0.01 0.01
I	59.36	30.69	+ 4 -11	4.76	40.32	-7-2	64.90	50.23	+ 1 + 8	59.91	58.05	+9+2
2	59.61	30.97	- 1 -II	{ 4.85 4.93	40.65	$ \begin{array}{r}  -7 + 2 \\  -5 + 5 \end{array} $	64.82	50.52	+ 4 + 8	59.68	58.24	+8-2
3	59.85	31.26	-5-9	5.01.	41.31	-2+7	64.73	50.82	+7+6	59.44	58.43	+5-5
. 4	60.09	31.54	-7-5	5.08	41.63	+ 1 + 8	64.63.	51.11	+8+4	59.20	58.61	+2-7
5	60.33	31.83	- 8 - r	5.15	41.96	+ 5 + 8	64.53	51.40	+8+1	58.95	58.79	3 - 8
6	60.56	32.13	-7 + 3	5.21	42.29	+7+6	64.43	51.69	+-7 - 3	58.70	58.96	-8-7
7	60.78	32.42	-4+6	5.27	42.62	+ 8 + 3	64.31	51.98	+4-6	58.45	59.13	-12 - 5
8	61.00	32.72	-1 + 8	5.32	42.94.	+8 0	64.19	52.26	0 - 8	58.19	59.29	-14 - 1
9	61.22	33.02	+2+9	5.36	43.27	+6-4	64.07	52.54	-4 - 8	57.93	59-45	-14 + 4
10	61.43	33.32	+ 5 + 8	5.40	43.60	+2-7	63.94	52.82	-10 - 7	57.67	59.60	—ıı → 8
II	61.63	33.63	+7+5.	5.43	43.92	-3 - 8	63.81	53.09	-14 - 3	57.41	59.75	- 6 +11
12	61.83	33.93	+8+2	5.46	44.25	-8 - 8	63.67	53-37	-15 + 1	57.14	.59.90	0 +11
13	62.03	34.24	+ 7 - 2	5.48	44.58	-12 - 6	63.53	53.63	-13 + 6	56.87	60.03	+ 6 + 9
14	62.22	34.55	+4-5	5.50	44.90	-14 - 2	63.38	53.90	- 9 +10	56.60	60.17	+10 + 4
15	62.40	34.86	o — 8	5.51	45.22	-14 + 3	63.23	54.16	3 +11	56.32	60.30	+12 — I
16	62.58	35.17	-4 - 8	5.51	45.54	-11 + 8	63.07	54.42	+ 4 +10	56.04	60.42	+11 - 6
17	62.76	35.48	-9-7	5.51	45.86	- 6 +10	62.90	54.67	+9+7	55.76	60.54	+7-10
18.	62.93	35.79	-13 - 4	5.50	46.18	+ 1 +11	62.73	54.92	+12 + 2	55.47	60.65	+ 3 -12
19	63.09	36.11	-r4 o	5.49	46.50	+7+9	62.56	55.17	+13 - 4	55.18	60.76	- 2 -II
20	63.25	36.43	-12 + 5	5.47	46.82	+11 + 4	62.38	55.42	+10 - 9	54.90	60.86	-6 - 8
21	63.41	36.75	-8 + 9	5.45	47.14	+13 - 1	62.20	55.66	+ 6 -11	54.60	60.96	-7 - 3
22	63.56	37.07	- 2 +11	5.42	47.46	.+12 - 6	62.02	55.90	+ 1 -12	54.31	61.05	-7 + 1
23	63.71	37-39	+ 4 +10	5.38	47.77	+ 9 -10	61.83	56.13	- 3 -10	54.02	61.14	-4+5
24	63.85	37.71	+10 + 7	5.34	48.08	+ 4 -12	61.63	56.36	-6-6	53.72	61.22	-1 + 7
25	63.98	38.03	+13 + 2	5.30	48.39	- I -II	61.43	56.58	-7-2	53.42	61.29	+ 3 + 8
26	64.11	38.36	+13 - 3	5.25	48.70	-5-8	61.23	56.80	-6 + 3	53.13	61.36	+6+8
27	64.23	38.68	+11 - 8	5.19	49.01	-7-4	61.02	57.02	-3 + 6	52.82	61.42	+8+6
28	64.35	39.01	+7-10	5.12	49.32	-7 0	60.80	57.23	0 + 8	52.52	61.48	+9+3
29	64.46	39.33	+ 2 -11	5.05	49.62	-5+4	60.58	57.44	+4+8	-52.22	61.53	+9-1
30	64.56	39.66	<b>–</b> 3 –10	4:98	49.92	-2+7	60.36	57.65	+ 6 + 7	51.92	61.58	+7-4
31	64.66	39.99	-6-7	4.90	50.23	+ 1 + 8	60.14	57.85	+8+5	51.61	61.62	+ 3 - 7
32	64.76	40.32	-7-2			ON THE REAL PROPERTY.	59.91	58.05	+9+2	51.31	61.65	- 1 - 8
7 TO 1	100	20 STAN	800000	Day and	100	MAKE SEN	8 16 5 5 b	198	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	F 213	A COLOR	75 P. S. S. S. S.

 $\alpha_{1947,0} = 16^{h} 40^{m} 43^{s}_{09}$ 

 $\delta_{1947.9} = -86^{\circ} 16' 35''39$ 

Obere Kulmination Greenwich

Sf) 2	26 G.	Octantis	6 <sup>m</sup> 13
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Т.		Septemb	oer		Oktob	er		Novemb	oe <b>r</b>		Dezemb	er
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
8	8346		in	2.6		in	1990	2-3	in	4 -15		in
	16 <sup>h</sup> 40 <sup>m</sup>	86° 16′	0.01 0.01	16 <sup>h</sup> 40 <sup>m</sup>	86° 16′	0.01 0.01	16 <sup>h</sup> 40 <sup>m</sup>	86° 16′	0.01 0.01	16 <sup>h</sup> 40 <sup>m</sup>	86° 16′	0.01 0.01
I	51.31	61.65	-1 - 8	42.29	59.98	-12 - 4	35.72	53.38	- 6 +10	34.57	44.42	+9+7
2	51.00	61.68	-6 - 8	42.02	59.83	-13 o	35.59	53.11	0 +11	*)34.64	44.11	+12 + 2
3	50.70	61.70	-10 - 6	41.75	59.68	-12 + 5	35.46	52.83	+6+9	34.71	43.81	+12 - 4
• 4.	50.39	61.72	-13 - 2	41.49	59.53	-9+9	35.34	52.55	+10 + 5	34.79	43.50	+10 - 8
5	50.08	61.73	-14 + 2	41.22	59.37	-,4 +11	35.23	52.27	+12 0	34.88	43.20	+ 5 -11
6	49.77	61.73	-12 + 7	40.97	59.20	+ 2 +11	35.12	51.98	+11 - 5	34.98	42.90	0 -11
7	49.46	61.73	- 8 +10	40.71	59.03	+7+8	35.02	51.69	+8 - 9	35.08	42.60	-4-9
8	49.15	61.72	- 2 +11	40.45	58.86	+11 + 3	34.92	51.41	+ 3 -11	35.19	42.29	-7-6.
9	48.84	61.71	+ 4 +10	40.20	58.68	H-II — 2	34.83	51.11	- 2 -II	35.30	41.99	- 8 - I
10	48.52	61.69	+9+7	39.96	58.50	+9-7	34.75	50.82	- 6 - 8	35.42	41.69	-7 + .3
II	48.21	61.67	+11 + 1	39.71	58.31	+ 6 -10	34.68	50.53	-8-4	35.55	41.40	-4+6
12	47.91	61.64	+11 - 4	39-47	58.11	+ 1 -11	34.61	50.23	-8 0	35.68	41.10	0 + 8
13	47.60	61.60	+8 - 8	39.24	57.92	- 4 -10	34.55	49.93	-6+4	35.82	40.81	+4+8
14	47.29	61.56	+ 4 -11	39.01	57.71	-7-7	34.49	49.64	-3 + 7	35-97	40.52	+7+7
15	46.99	61.51	- 1 -11	38.79	57.50	-8 - 2	34.44	49-33	+ 1 + 9	36.12	40.23	+9+4
16	46.68	61.46	- 5 - 9	38.57	57.29	- 7.+ 2	34.40	49.03	+ 5 + 8	36.28	39.94	+ 9 + 1
17	46.38	61.40	-7 - 5	38.35	57.07	-4+6	34.36	48.73	+8+6	36.44	39.65	+8-2
18	46.08	61.34	-8 o	38.14	56.85	- I + 8	34.33	48.42	+ 9 + 3	36.61	39-37	<h 5="" 5<="" td="" −=""></h>
19	45.77	61.27	-6+4	37.93	56.63	+ 3. + .9	34.31	48.12	+9 0	36.79	39.09	+ 1 - 8
20	45.47	61.19	-3 + 7	37-73	56.40	+7 + 8	34.29	47.82	+7-4	36.97	38.81	<b>-4-9</b> .
21	45.17	61.11	+ 1 + 8	37.53	56.17	+9+5	34.28	.47.51	+4-7	37.16	38.54	<b>-</b> 9-7
22	44.88	61.02	+5+8	37.34	55.93	+10 + 2	34,28	47.20	-1 - 8	37-35	38.26	-13 - 4
23	44.58	60.92	+ 8 +.7	37.15	55.69	+ 9 - 2	34.29	46.89	-6 - 8	37.55	37.99	-15 0
24	44.29	60.82	+ 9.+ 4	36.97	55.45	. + 6 <del>-</del> 5 <sub>1</sub>	34.30	46.58	-10 - 6	37.76	37.73	-14 + 4
25	44.00	60.72	+9 0	36.80	55.20	+2-7	34.32	46.27	-13 - 3	37.98	37.46	-11 + 9
26	43.71	60.61	+8-3	36.63	54.95	-2 - 8	34.35	45.96.	-14 + 2	38.20	37.20	- 6 +II
27	43.42	60.49	+5-6	36.46	54.69	-7 - 8	34.38	45.65	-12 + 6	38.42	36.94	+ 1 +12
28.	43.13	60.37	+ 1 - 8	36.30	54-43	-II - 5	34.42	45.34	- 8 +10	38.65	36.68	+6+9
29	42.85	60.25	-4-9	36.14	54.17	-13 - 1	34.46	45.03	- 2 +1I	38.89	36.43	+11 + 4
30	42.57	60.11	-8-7	36.00	53.91	-13 + 3	34.51	44.72	+ 4 +10	39.13	36.18	+13 - 1
31	42.29	59.98	<b>—12</b> . — 4	35.85	53.65	-10 + 7	34.57	44.42	+9+7	39.38	35.94	+11 - 6
32	533	18	E GA EAG	35.72	53.38	- 6 +10	129			39.63	35.70	·+ 8 -10
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$											

 $\alpha_{1947.0} = 16^{h} 40^{m} 43^{s}09$ 

 $\delta_{1947.0} = -86^{\circ} \cdot 16' \cdot 35''.39$ 

<sup>\*)</sup> Tag der doppelten unteren Kulmination: Dez. 2.

Obere Kulmination Greenwich

Sg) >	Oct	tantis	5 <sup>m</sup> 22
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П. с.	5 55	Janua	r		Februa	ar		März		30,36	April	
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
	ME SE	WS.	in	(reliance	3/25	in	200	S D. S	in	3.5	E46	in
	18 <sup>h</sup> 23 <sup>m</sup>	87° 39′	0.01 0.01	18 <sup>h</sup> 23 <sup>m</sup>	87° 39′	0.01 0.01	18 <sup>h</sup> 23 <sup>m</sup>	87° 39′	0.01 0.01	18 <sup>h</sup> 24 <sup>m</sup>	87° 39′	10.0 10.0
I	17.20	18.20	-15 - '9	27.43	9.26	-15 + 8	42.58	3.95	-9+9	2.26	2.23	+18 + 3
2	17.39	17.88	-20 - 5°	27.89	9.01	- 6 +10	43.19	3.83	- I +IO	2.90	2.25	+19 - 2
3	17.59	17.56	<b>-21</b> 0	28.36	8.77	+ 3 +10	43.80	3.71	+ 8 + 9	3.55	2.28	+16 - 7
4	17.80	17.24	-18 + 5	28.83	8.53	+12 + 8	44.41	3.59	+15 + 6	4.18	2.31	+10 - 9
5	18.02	16.93	-11 + 9	29.32	8.30	+18 + 4	45.03	3.47	+19 + 1	4.82	2.34	+ 3· →io
6	18.25	16.62	- I +II	29.81	8.07	+20 — I	45.65	3.36	+18 - 4	5.46	2.38	-4-9
7	18.49	16.31	+ 9 +10	30.30	7.85	+18 - 6	46.27	3.26	+14 - 8	6.09	2.43	-9-6
8	18.74	16.00	+16 + 6	30.80	7.63	+13 - 9	46.89	3.16	+ 8 -10	6.72	2.48	-11 - 2
9	19.00	15.69	+2I + I	31.31	7.41	+ 6 -10	47.52	3.07	+ 1 -10	7.36	2.53	-11 + 2,
10	19.27	15.38	+21 - 3	31.83	7.20	- 1 - 9	48.14	2.98	-5 - 8	7.98	2.59	-9+6
11	19.55	15.08	+17 - 8	32.35	6.99	-7-6	48.78	2.90	-10 - 4	8.61	2.66	<b>-</b> 5 + 8
12	19.84	14.78	#11 <b>—</b> 10	32.87	6.79	-ro - 3	49.41	2.82	—'11 o	9.24	2.73	0+9
13	20.14	14.47	+ 3 -10	33.40	6.58	-11 + 2	50.04	2.74	-11 + 4	9.86	2.80	+ 5 + 9
14	20.44	14.18	-3 - 8	33.94	6.39	-9 + 5	50.67	2.67	-8 + 7	10.49	2.87	+9+6
15	20:76	13.88	-8-5	34.48	6.20	-6 + 8	51.31	2.61	-3 + 9	11.10	2.95	+11 + 3
16	21.08	13.59	-ro - 1	35.03	6.01	- 1 + 9	51.95	2.55	+2+9	11.72	3.04	+11 1
17	21.41	13.30	-10 + 3	35.58	5.82	+4+9	52.59	2.49	+7+8.	12.33	3.13	+9-5
18	21.76	13.01	-8 + 6	36.14	5.65	+8 + 7	53.23	2.44	+10 + 5	12.94	3.23	+ 4 - 8_
19	22.11	12.72	-4+9	36.71	5.47	+11.+4	53.87	2,40	+12 + 2	13.54	3.33	- 3 -ro
20	22.47	12.44	0+9	37.28	5:30	+11 0	54.51	2.36	+11 - 2	14.14	3.44	-10 - 9
21	22.84	12.16	+ 5 + 8	37.85	5.13	+10 - 4	55.16	2.32	+7-6	14.74	3.55	-16 - 7
22	23.22	11.88	+9+6	38.43	4.97	+ 5 - 7	55.81	2.29	+2-9	15.34	3.66	-19 - 3
23	23.60	11.60	+11 + 3	39.01	4.81	- I - 9	56.46	2.26	- 5 -10	15.93	3.78	-18 + 2
24	23.99	11.33	:+10 − 1	39.59	4.65	-8 - 9	57.10	2.24	-12 - 8	16.53	3.90	-13 + 7
25	24.39	11.06	+8-5	40.18	4.50	-15 - 8	57.75	2.22	-17 - 5	17.11	4.03	- 6 +10
26	24.80	10.79	+3-8	40.77	4.36	-19 - 4	58.39	2.20	-19 - I	17.69.	4.16	+ 3 +10
27	25.22	10.53	- 4 -10	41.37	4.22	-20 + I	59.04	2.20	-17 + 4	18.27	4.30	+12 + 9
28	25.64	10.27	-12 - 9	41.97	4.08	-16 + 6	59.68	2.19	-11 + 8	18.85	4.44	+18.+.5
29	26.08	10.01	-18 - 6	42.58	3.95	- 9-+ 9	60.33	2.19	3 +10·	19.41	4.58	+20 0
30.	26.52	9.76	-21 - 2				60.97	2.20	+ 6 +10	19.98	4.73	+18 - 5
31	26.97	9.51	-20 + 3		/		61.62	2.21	+13 + 7	20.54	4.88	+13 - 9
32	27.43	9.26	-15 + 8	2435	1988		62.26	2.23	+18 + 3		25	
5.199	W. 885	2 19 19 19	080000000000	NG (30.5)	19072 10	P 3/2 5/2	412000	College	S 117 3 1	23/2005	CARL P	5300 - 11 m

ax947.0 = 18h 24m 0.94 .

 $\delta_{1947.0} = -87^{\circ} 39' 16.08$ 

Obere Kulmination Greenwich

Sg)	Octantis	5 <sup>m</sup> 22
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Sg) χ Uctantis 5 <sup>m</sup> 22												
Tag		Mai			Juni		1766	Juli		August		
lag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
		8-3	in		27	in	all was f	1023	in		-	in
	18 <sup>h</sup> 24 <sup>m</sup>	87° 39′	0.01 0.01	18 <sup>b</sup> 24 <sup>m</sup>	87° 39′	0.01 0.01	18 <sup>h</sup> 24 <sup>m</sup>	87° 39′	10.01	18 <sup>h</sup> 24 <sup>m</sup>	87° 39′	0.01 0.01
, 1	20.54	4.88	+13 - 9	35.10	11.47	-9 - 5	42.39	20.56	-4 + 8	40.85	29.94	+11 + 5
2	21.10	5.04	+ 6 -10	35.46	11.73	-II - I	42.48	20.87	0+9	40.65	30.22	+12 + I
3	21.65	5.20	- 1 -10	35.82	12.00	-10 + 3	42.56	21.18	+ 5 + 8	40.45	30.49	+11 -3
4	22.20	5.36	-7 - 7	36.16	12.27	-8+6	42.63	21.50	+9+7	40.24	30.77	+7-6
5	22.74	5.53	-rr - 3	36.50	12.54	-4+8	42.70	21.81	+11 + 4	40.01	31.04	+ 1 - 9
6	23.28	5.70	-I2 + I	36.83	12.82	+ 1 + 9	42.75	22.12	+11 0	39.78	31.30	- 6 -10
7	23.81	5.88	-10 + 4	37.15	13.09	+5+8	42.79	22.43	+ 9 - 4	39.54	31.57	-14 - 9
8	24.33	6.06	-7 + 7	37.46	13.37	+9+6	42.83	22.75	+4-8	39.29	31.83	-20 - 6
9	24.85	6.25	-2+9	37.76	13.65	+11 + 3	42.85	23.06	- 2 -10	39.04	32.09	-22 - 1
10	25.36	6.44	+ 3 + 9	38.06	13.94	+10 - 2	42.87	23.37	-10 <b>-1</b> 0	38.77	32.35	-21 + 4
II	25.87	6.63	+7+7	38.35	14.22	+7-6	42.88	23.68	-17 - 8	38.50	32.60	-15 + 8
12	26.38	6.82	+10 + 5	38.63	14.51	+ r - 9	42.87	24.00	-22 - 4	38.23	32.85	- 7 +11
13	26.88	7.02	+11 + 1	38.91	14.80	<b>–</b> 6 <b>–</b> 10	42.86	24.31	-22 + 1	37.94	33.10	+ 3 +10
14	27.37	7.22	+9-3	39.17	15.09	-13 - 9	42.84	24.61	-19-+6	37.64	33.34	+12 + 8
15	27.85	7.43	+5-7	39.42	15.38	-19 - 7	42.81	24.92	-11 +10	37.34	33:58	+18 + 3
16	28.33	7.64	— I —IO	39.67	15.68	-22 - 2	42.76	25.23	- i +ii	37.03	33.81	+19 - 2
17	28.81	7.85	— 8 —ro	39.91	15.97	-20 + 3	42.71	25.53	+ 8 +ro	36.71	34.04	+17 - 7
18	29.27	8.07	-15 - 8	40.13	16.27	-14 + 8	42.65	25.84	+16 + 6	36.38	34.26	+11 -10
19	29.73	8.29	-19 - 4	40.35	16.57	- 6 +II	42.58	26.14	+20 + I	36.05	34.48	+ 4 -11
20	30.18	8.52	<b>-2</b> 0 0	40.56	16.87	+ 4 +11	42.50	26.44	+20 - 4	35.71	34.70	<b>-3</b> → 9
21	30.63	8.75	-17 + 5	40.76	17.17	+13 + 8	42.41	26.75	+15 - 8	35.36	34.91	-8-5
22	31.07	8.98	—io +- g	40.95	17.48	+19 + 4	42.32	27.04	+ 9 -10	35.ÒI	35.12	-10 - I
23	31.51	9.21	ri+o	41.14	17.78	+21 - 1	42.21	27.34	+ 1 -10	34.65	35.33	-9 + 3
24	31.94	9.45	+ 9 +10	41.31	18.08	+19 - 6	42.09	27.64	-5 - 8	34.28	35.53	-6+7
25	32.36	9.69	+17 + 7	41.48	18.39	+13 -10	41.97	27.93	-9-4	33.91	35.73	-2+9
- 26	32.77	9.94	+21 + 2	41.64	18.70	+ 6 -ro	41.84	28.22	-10 + 1	33.53	35.92	+3+9
27	33.18	10.18	+203	41.78	19.01	-1 - 9	41.69	28.52	-8 + 5	33.14	36.11	+8+8
.28	33.58	10,44	+16 - 7	{41.92 42.05	19.32	-7-6	41.54	28.80	-5+7	32.75	36.29	+11 + 6
29	33.97	10.69	+10 -10	42.17	19.03	-10 - 2	41.38	29.09	0+9	32.35	36.47	+13 + 2
30	34-35	10.95	+ 2 -10	42.28	20.25	-8 + 6	41.21	29.38	+4+9	31.95	36.64	+12 - 1
31	34.73	11.21	-4-8	42.39	20.56	-4 + 8	41.03	29.66	+8+7	31.54	36.81	+9-5
32	35.10	11.47	-9-5	139			40.85	29.94	+11 + 5	31.13	36.98	+4-8
	33	2 (4)	1 200 8	4-01	0	2		Termina in	SHOW SHAN		30.90	NEW PROPERTY.

 $\alpha_{1947.0} = 18^{h} 24^{m} 0.94$ 

 $\delta_{1947.0} = -87^{\circ} 39' 16''08$ 

 		ALCOHOL: N	
- 4	MARKET BANKS		

Sg) χ Octantis 5 <sup>m</sup> 22												
Tag	4.015.0	Septem	ber	1998	Oktob	er	1023	Novemb	er		Dezemb	er
148	AR.	Dekl.	C Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
Floring.	100	443	in	218-16	325	in	350	327	in	5000	-323	in
	18 <sup>h</sup> 24 <sup>m</sup>	87°39′	10.01	18 <sup>h</sup> 24 <sup>m</sup>	87° 39′	0.01 0.01	18 <sup>h</sup> 23 <sup>m</sup>	87°39′	0.01 0.01	18 <sup>h</sup> 23 <sup>m</sup>	87°39′	0.01 0.01
1	31.13	36.98	+ 4 - 8	16.98	39.38	-14 - 8	62.69	36.29	-14 + 8	54.42	28.78	·+ 8 +10
2	30.71	37.14	- 3 -10	16.49	39.37	-19 - 4	62.30	36.11	- 6 +10	54.29	28.48	+16 + 6
3	30.29	37.29	-10 - 9	15.99	39.36	-20 o	61.92	35.91	+ 3 +11	54.16	28.17	+20 + I
4	29.86	37.44	-17 - 7	15.50	39.33	-18 + 5	61.54	35.71	+11 + 8	54.05	27.86	+19 - 4
5	29.42	37.59	-21 - 3	15.00	39.30	-12 + 9	61.17	35.51	+17 + 4	53.95	27.55	+15 - 8
6	28.98	37.73	-21 + 2	14.51	39.26	- 4 +11	60.81	35.30	+19 — 1	53.86	27.24	+ 8 -10
7	28.54	37.86	-17 + 7	14.02	39.22	+ 5 +10	60.45	35.09	+17 - 6	53.78	26.93	010
8	28.09	37.99	-10 +10	13.53	39.17	+13 + 7	60.10	34.87	+11 - 9	53.70	26.62	-6 - 8
9	27.64	38.12	- I +II	13.04	39.12	+17 + 2	59.76	34.65	+ 4 -11	. 53.64	26.31	-10 <b>-</b> 4
10	27.18	38.23	+8+9	12.55	39.06	+18 - 3	59-43	34.42	<u> </u>	53.59	25.99	-11 + 1
11	26.72	38.35	-+15 + 5	12.06	38.99	+14 - 7	59.10	34.19	-9-6	53.55	25.67	-9+5
12	26.26	38.45	+18 0	11.58	38.92	+ 8 -ro	58.78	33.95	-11 - 2	53.52	25.35	-5 + 8
13	25.79	38.55	+17 - 5	11.10	38.85	+ 1 -10	58.48	33.71	-11 + 2	53.50	25.03	0+9
14	25.32	38.65	+13 - 9	10.62	38.76	-6-9	58.18	33-47	-8+6	53.49	24.71	+ 5 + 9
15	24.85	38.74	+ .6 -11	10.15	38.68	-10 - <u>5</u>	57.88	33.22	-3 + 9	53.49	24.39	+10 + 7
16	24.37	38.82	- 1 -10·	9.68	38.58	-11 o	57.60	32.97	+2+9	53.50	24.06	+12 + 4
17	23.89	38.90	-7-7	9.21	38.48	-10 + 4	57.32	32.71	+7+9	53.52	23.74	+13 + 1
18	23.41	38.97	-10 - 3	8.74	38.37	-6 + 7	57.06	32.45	+11 + 6	53.55	23.41	+11 - 3
19	22.92	39.04	-11 + 2	8.28	38.26	- 1 + 9	56.80	32.19	+13 + 3	53.59	23.09	+7-7
20	22.44	39.10	-8+6	7.82	38.15	+4+9	56.55	31.92	+12 - 1	53.65	22.76	0 — 9
21	21.95	39.15	-4 + 8	7.36	38.02	+9+8	56.31	31.65	+10 - 5	53.71	22.43	- 7 -10
22	21.46	39.20	+ 1 +10	6.91	37.89	+12 + 5	56.08	31.38	+4-8	53.79	22.11	-15 - 9
23	20.97	39.25	+6+9	6.47	37.76	+13 + 1	55.86	31.10	- 3 -10	53.87	21.78	-20 - 6
24	20.47	39.28	+11 + 7	6.03	37.62	+12 - 2	55.65	30.82	-10 -10.	53.97	21.45	-23 - 1
25	19.98	39.32	+13 + 4	5.59	37.47	+8-6	55.44	30.54	-17 - 8	54.07	21.13	-21 + 4
26	19.48	39.34	+13 0	5.16	37.32	+ 2 - 9	55.25	30.25	<b>-21</b> - 3	54.19	20.80	-15 + 9
27	18.98	39.36	+11 - 4	4.74	37.16	- 5 -10	55.06	29.96	-21 + 1	54.32	20.47	- 6 +1r
28	18.48	39.38	+6-7	4.32	37.00	-12 - 9	54.89	29.67	-17 + 6	*)54.45	20.15	+ 4 +11
29	17.98	39-39	0 - 9	3.90	36.83	-17 - 6	54.72	29.38	-10 +10	54.60	19.82	+13 + 8
30	17.48	39.39	- 7 -10	3.49	36.66	-20 - 2	54.57	29.08	- 1 +11	54.76	19.50	+19 + 3
31	16.98	39.38	-14 — 8	3.09	36.48	-19 + 3	54.42	28.78	+ 8 +10	54.93	19.18	+20 - 2
32	W 200		12 14 12	2.69	36.29	-14 + 8		300		55.11	18.85	+17 - 7
1000		1330		190730	2012		500	Trans.	2   /		1318	8 37 16

 $\alpha_{1947.0} = 18^{h} 24^{m} 0.94.$   $\delta_{1947.0} = -87^{\circ} 39' 16.08$ 

<sup>\*)</sup> Tag der doppelten unteren Kulmination: Dez. 28.

Obere Kulmination Greenwich

Sh)	σ	Octantis	5 <sup>m</sup> 48
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	le constant		New York			O Octan						
Tag	K5(43) 19	Janua	STATE OF THE PARTY	Deck	Februa	- CONT.	25 E.	März		1.45	April	
1	AR.	Dekl.	C Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
			in			in		-	in		-	in
	20 <sup>h</sup> 9 <sup>m</sup>	89° 8′	0.01 0.01	20 <sup>h</sup> 9 <sup>m</sup>	89° 8′	0.01 0.01	20 <sup>h</sup> 10 <sup>m</sup>	89° 8′	0.01 0.01	20 <sup>h</sup> 10 <sup>m</sup>	89° 8′	0.01 0.01
1.	27.84	65.18	-19 <b>-</b> 11	34.40	54.35	-51 + 3	0.61	45.45	-40 + 6	45.21	38.53	+38 + 7
2	27.64	64.84	-38-9	35.03	54.01	-35 + 7	1.84	45.17	-21 + 9	46.82	38.38	+49 + 2.
3	27.47	64.50	-49 - 5	35.69	53.67	-12 +10	3.09	44.89	+ 3 +10	48.43	38.23	+50 - 2
4	27.33	64.16	-51 0	36.37	53-33	+14 +10	4.35	44.62	+25 + 9	50.05	38.08	+42 - 6
5	27.22	63.82	-42 + 5	37.07	52.99	+36 + 8	5.63	44.35	+43 + 5	51.68	37.94	+27 - 8
6	27.13	63.47	-23 + 9	37.80	52.65	+51 + 4	6.92	44.09	+52 + 1	53.31	37.80	+8-9
7	27.07	63.12	+ 3 +11	38.55	52.31	+54 — I	8.23	43.83	+49 - 4	54.95	37.67	-10 - 7
8	27.04	62.77	+27 +10	39-33	51.98	+48 - 5	9.56	43.57	+38 - 7	56.60	37.54	-24 - 4
9	27.03	62.43	+47 + 6	40.13	51.64	+34 - 8	10.90	43.31	+21 - 9	58.25	37.42	-32 - 1
10	27.06	62.08	+56 + 2	40.95	51.31	+15 - 9	12.26	43.06	+2-8	59.91	37.30	-33 + 3
II	27.11	61.73	+55 - 3	41.80	50.98	-4-7	13.63	42.81	-15 - 6	61.57	37.18	-28 + 6
12	27.19	61.38	+44 - 6	42.66	50.65	-19 - 5	15.01	42.57	-27 - 3	63.24	37.07	-19 + 8
13	27.29	61.03	+27 - 8	43.55	50.33	-29 - 1	16.41	42.33	-32 + 1	64.90	36.97	-6+9
14	27.42	60.67	+7 - 8	44.47	50.00	-32 + 3	17.82	42.09	-32 + 5	66.57	36.87	+8+8
15	27.58	60.32	-11 - 6	45.40	49.68	-29 + 6	19.25	41.86	-25 + 7	68.25	36.78	+20 + 5
16	27.77	59.97	-24 - 3	46.36	49.36	-20 + 8	20.69	41.63	-14-4-9	69.92	36.69	+29 + 2
17	27.99	59.62	-30 o	47.34	49.05	-8+9	22.14	41.40	0 + 9	71.60	36.61	+30 - 3
18	28.23	59.27	-31 + 4	48.33	48.73	+ 6 + 8	23.60	41.18	+14 + 7	73.28	36.53	+25 - 7
19	28.50	58.91	-27 + 7	49.35	48.42	+17 + 6	25.08	40.96	+25 + 4	74.96	36.46	+12 <b>-</b> 10.
20	28.80	58.56	-17 + 8	50.39	48.11	+27 + 3	26.56	40.75	+31 0	76.64	36.39	- 5 -II
21	29.12	58.21	-4 + 8	51.45	47.80	+31 - 1	28.06	40.54	+30 - 4	78.33	36.32	-24 -ro
22	29.47	57.86	+9+7	52.53	47.50	+27 - 5	29.57	40.34	+21 - 8	80.01	36.26	-40 - 7
23	*)29.85	57.50	+20 + 5	53.62	47.20	+16 - 9	31.09	40.14	+ 6 -10	81.70	36.21	-47 - 2
24	30.25	57.15	+27 + 1	54.74	46.90	- I -II	32.62	39.94	-I2 -II	83.38	36.16	-45 + 3
25	30.68	56.79	+29 - 3	55.88	46.60	-20 -10	34.17	39.75	-31 - 9	85.07	36.11	-33 + 8
26	31.13	56.44	+22 - 7	.57.04	46.31	-38 - 8	35.72	39.56	-44 - 5	86.75	36.07	_12 +10
27	31.61	56.09	+ 8 -10	58.21	46.02	-48 - 4	37.28	39.38	-48 0	88.43	36.04	+11 +11
28	32.12	55.74	-10 <b>-11</b>	59.40	45.73	-49 + I	38.85	39.20	-43 + 5	90.11	36.01	+33 + 8
29	32.65	55.39	-29 -10	60.61	45.45	-40,+6	40.43	39.03	-27 + 9	91.78	35.98	+47 + 5
30	33.21	55.04	-45 <b>-</b> 7				42.01	38.86	- 5 +io	93.46	35.96	+53 0
31	33-79	54.70	-52,- 2	- 810			43.61	38.69	+18 +10	95.13	35.94	+48 - 5
32	34.40	54-35	-5i + 3	<b>300 88</b>		100	45.21	38.53	+38 + 7	535		
234	7 79 7 70	174 17	CONTRACTOR OF THE PARTY OF THE	2957/200	1000	ASSESSED FOR	3 30 50	19000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	128100	1935	

 $\alpha_{1947.0} = 20^h \text{ ft}^m \text{ 10.10}$ 

$$\delta_{1947.0} = -89^{\circ} 8' 51.55$$

<sup>\*)</sup> Tag der doppelten unteren Kulmination: Jan. 23.

Sh)	σ	Octantis	5 <sup>m</sup> 48
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re.	9 (1)	Mai			Juni			Juli		August		
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	C.Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
1		4	in	1000	8 L G	in	10000	1	in	1000	324	in
	20 <sup>h</sup> 11 <sup>m</sup>	89° 8′	0.01 0.01	20 <sup>h</sup> 12 <sup>m</sup>	89° 8′	0,01 0,01	20 <sup>h</sup> 12 <sup>m</sup>	89° 8′	0.01 0.01	20 <sup>h</sup> 13 <sup>m</sup>	.89° 8′	10.01
I	35.13	35.94	+48 - 5	23.88	37.94	-13 - 6	59.66	43.93	-30 + 3	15.15	53.14	+17 + 7
2	36.80	35.93	+34 - 8	25.29	38.08	-25 - 3	59.94	44.18	-26 + 6	15.23	53.44	+26 + 4
3	38.47	35.92	-16 - 9	26.69	38.22	-32 + 1	60.79	44.44	-17 + 8	15.29	53.75	+31 0
` 4	40.13	35,92	-3 - 8	28.08	38.37	-31 + 4	61.61	44.70	- 5 - 9	15.32	54.06	+28 - 4
5	41.79	35-93	-19 - 5	29.45	38.52	-25 <del>+</del> 7	62.42	44.97	+7+8	15.32	54.36	+19 - 8
6	43:45	35.94	-29 - 2	30.81	38.68	-15 + 8	63.20	45.24	+19 + 6	15.30	54.67	+ 4 -10
7	45.10	35.95	-33 + 2	32.15	38.84	-3 + 9	63.96	45.51	+26 + 3	15.25	54.97	-16 -11
8	46.75	35.97	-31 + 5	33.47	39.01	+io + 7	64.70	45.78	+29 - 2	15.18	. 55.28	<b>−36</b> −10
9	48.39	36.00	-23 + 8	34.78	39.18	+21 + 6	65.42	46.05	+25 - 6	15.08	55.58	-50 <b>-</b> 6
10	50.02	36.03.	-12 + 9	36.07	39.36	+28 + 1	66.11	46.33	+13 - 9	14.95	55.89	-57 - I
II	51.65	36.07	+ 2 + 8	37-35	39.54	+29 - 4	66.78	46.61	- 5 -11	14.79	56.19	-52 + 4
12	53.28	36.11	+15 + 6	38.61	39.72	+21 - 8	67.42	46.89	-25 -11	14.61	56.50	-36 + 8
13	54.89	36.16	+25 + 3	39.85	39.91	+ 6 -11	68.04	47.17	-44 - 9	14.40	56.80	-13 +10
14	56.50	36.21	+29 — I	41.08	40.10	-I3 -I2	68.64	47.45	-54 - 4	14:17	57.10	+14 +10
15	58.11	36.26	+27 - 5	42.29	40.30	-32 -11	69.21	47.74	-56 + 1	13,91	57.41	+36 + 7
16	59.70	36.32	+17 - 9	43.48	40.50	-48 - 7	69.75	48.03	-45 + 6	13.62	57.71	+50 + 3
17	61.28	36.39	0 -11	44.66	40.70	-54 - 2	70.27	48.32	-24 + 9	13.31	58.00	+54 - 2
18	62.86	36.46	-19 -11	45.81	40.91	<del>-'</del> 49 + 4	70.77	48.61	+ 1 +11	12.97	58.30	+46 - 6
19	64.43	36.53	-37 - 9	46.95	41.12	-34 + 8	71.24	48.90	+28 + 9	12.61	58.59	+28 - 9
20	65.99	36.61	<b>-49 - 4</b>	48.07	41.34	-10 +11	71.69	49.20	+47 + 6	12.22	58.89	+10 - 9
21	67.54	36.69	-50 + I	49.17	41.56	+17 +11	72.11	49.50	+52 + I	11.81	59.18	-9-7
22	69.08	36.78	-41 + 6	50.25	41.78	+39 + 8	72.51	49.79	+52 - 4	11.37	59.46	-22 - 3
23	70.61	36.88	-21 +10	51.32	42.01	+53 + 4	72.88	50.09	+42 - 7	10.90	59.75	-29 + 1
24	72.13	36.98	+ 3 +11	52.36	42.24	+57 - 1	73.22	50.40	+23 - 8	10.41	60.03	-28 + 5
25	73.64	37.08	+27 +10	53.38	42.47	+50 - 5	73.54	50.70	+3 - 8	9.89	60.32	-21 + 8
26	75.14	37.19	+46 + 6	54.38	42.70	+35 - 8	{ 73.83 74.10	51.00 51.31	-14 - 5 -25 - 2	9.35	60.60	-10 + 9
27	76.63	37-30	+55 + 2	55.36	42.94	-14 - 9	74-34	51.61	-29 + 2	8.79	60.87	+ 3 + 9
28	78.10	37.42	+53 - 3	56.32	43.18	-5-7	74.55	51.92	-26 + 6	8.20	61.15	+15 + 8
29	79.56	37.54	+42 - 7	57.26	43.43	-20 - 4	74-74	52.22	-18 + 8	7.59	61.42	+26 + 5
30	81.01	37.67	+25 - 8	58.17	43.68	<b>-28</b> o	74.90	52.53	- 7 +·9	6.95	61.69	+31 + 2
31	82.45	37.80	+5 - 8	59.06	43.93	-30 + 3	75.04	52.83	+5+9	6.29	61.96	+32 - 3
32	83.88	37-94	-13 - 6		1	1	75.15	53.14	+17 + 7	5.60	62.23	+25 - 6
375	-125974	3 3 K	Z NEWS	13 37 37	577 330	THE PERSON NAMED IN	732 S J	3 373 -3	N. 1000 3. 60	THE PLAN	3 700	188 8130

α<sub>1047.0</sub> = 20<sup>h</sup> 11<sup>m</sup> 10.10

 $\delta_{1947.0} = -89^{\circ} 8' 51.55$ 

Obere Kulmination Greenwich

Sh)	σ	Octantis	5 <sup>m</sup> 48
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		Septeml	ber		Oktob	er	3	Novem	be <b>r</b>	Dezember		
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
	EAS.	24	in		F	in		1	in	124	100	in
	20 <sup>h</sup> 12 <sup>m</sup>	89° 9′	0.01 0.01	20 <sup>h</sup> 11 <sup>m</sup>	89° 9′	0.01 0.01	20 <sup>h</sup> 11 <sup>m</sup>	89° 9′	0.01 0.01	20 <sup>h</sup> 10 <sup>m</sup>	89° 8′	0.01 0.01
I	65.60	2.23	+25 - 6	95.55	8.35	-17 -II	53.61	9.58	-49 + 4	77.24	65.14	+ 2 +11
2	64.89	2.49	+11 9	94.30	8.48	-36 - 8	52.24	9.52	-35 + 8	76.27	64.91	+26 + 9
3	64.16	2.75	- 711	93.03	8.60	-48 - 5	50.88	9.45	-14 +10	75.32	64.67	+45 + 6
4	63.40	3.01	-27 -10	91.75	8.72	<b>−52</b> 0	49.53	9.38	(+10 +10	74-39	64.43	+53 + 1
5	62.62	3.26	-43 - 8	90.47	8.83	-46 + 5	48.18	9.30	+32 + 8	73.48	64.18	+51 - 4
6	61.82	3.51	-53 - 3	89.17	8.94	-30 + 9	46.84	9.21	+47 + 4	72.59	63.93	+40 - 8
7	61.00	3.75	-53 + 2	87.86	9.04	- 7 +10	45.51	9.12	+51 - 1	71.73	63.67	+21 - 9
8	60.15	3.99	-43 + 6	86.54	9.14	<del>+17 + 9</del>	44.18	9.02	+45 - 6	70.88	63.41	0 - 8
9	59.29	4.23	-23 + 9	85.22	9.23	+37 + 6	42.87	8.92	+30 - 8	70.06	63.15	-17 - 6
10	58.40	4.46	+ 2 +10	83.88	9.31	+48 + 1	41.56	8.81	+11 - 9	69.27	62.88	-28 - 2
II	57.50	4.69	+25 + 8	82.54	9.39	+49 - 3	40.27	8.69	-8 - 8	68.49	62.61	-31 + 2
12	56.57	4.92	+44 + 4	81.19	9.46	+39 - 7	38.98	8.57	-23 - 5	67.74	62.33	-27 + 6
13	55.62	5.14	+51 0	79.83	9.52	+22 9	37.71	8.44	-30 <b>-</b> 1	67.01	62.05	-18 + 9
14	54.66	5.36	+48 - 5	78.47	9.58	+3-9	36.45	8.30	-31 + 3	66.31	61.76	-4+9
15	53.67	5.57	+35 - 8	77.10	9.63	-14 - 7	35.20	8.16	-25 + 7	65.63	61.47	+8+9
16	52.67	5.78	+16 - 9	75.73	9.68	-27 - 3	33.96	8.01	-14 + 9	64.97	61.18	+21 + 7
17	51.64	5.99	-3 - 8	74.36	9.72	-32 + 1	32.74	7.86	- I +IO	64.34	60.88	+29 + 4
18	50.60	6.19	-19 - 5	72.98	9.75	-29 + 5	31.53	7.70	+13 + 9	63.73	60.58	+33 0
19	49.54	6.39	-29 - I	71.60	9.78	-22 + 8	30.33	7.54	+25 + 6	63.15	60.28	+30 - 5
20	48.46	6.58	-31 + 3	70.21	9.80	-8 + 9	29.15	7.37	+32 + 2	62.60	59.97	+18 - 9
21	47.36	6.77	-26 + 7	68.83	9.82	+6+9	27.98	7.19	+32 - 2	62.07	59.66	+ 2 -11
22	46.25	6.95	-15 + 9	67.44	9.83	+19 + 8	26.83	7.01	+26-6	61.57	59.35	-18 -12
23	45.12	7.13	- 2 +IO	66.05	9.83	+29 + 4	25.70	6.82	+13 -10	61.09	59.03	-37 -10
24	43.98	7.30	+12 + 9	64.66	9.83	+33 + 1	24.58	6.63	- 5 -11	60.64	58.71	-52 - 6
.25	42.82	7.47	+24 + 6	63.28	9.82	+31 - 4	23.48	6.43	-25 -11	60.22	58.39	
.26	41.64	7.63	+31 + 3	61.89	9.80	+22 - 8	22.39	6.23	-42 - 8	59.82	58.07	<b>-52.+4</b>
27	40.45	7.78	+33 - 1	60.50	9.78	+ 710	21.32	6.02	-53 - 4	59-45	57.74	-35 + 9
28	39.24	7.93	+29 - 5	59.11	9.75	-11 -11	20.28	5.81	-53 + 1	59.11	57.42	-11 +11
29	38.03	8.08	+18 - 9	57.73	9.72	-30 -10	19.25	5.59	-42 + 6	58.79	57.09	+16 +10
30	36.80	8.22	+ 2 -11	56.35	9.68	-45 - 6	18.23	5.37	-23 +10	58.50	56.75	+38 + 7
31	35.55	8.35	-17 -11	54.98	9.63	-52 - 2	17.24	5.14	+ 2 +11	58.23	56.42	+52 + 3
32			1 1 1 1 1 1	53.61	9.58	-49 + 4.	345			57:99	56.08	+55 - 2
J. 1888	700 000	S-1915	580 B.	Act Park	1-30	And Salls	115 61	-11/04	10000	1000	STANKS.	100000000000000000000000000000000000000

α<sub>1947.0</sub> = 20<sup>h</sup> 11<sup>m</sup> 10.10

 $\delta_{1947.0} = -89^{\circ} 8' 51.755$ 

Si) β Octantis	4 <sup>m</sup> 34	
Februar	März	
Dekl. C Glieder	R. Dekl. C Glieder	AR.

	1	Janua	r		Februa	r		März			April	
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
		1	in			in			in	100	-	in
	22 <sup>h</sup> 40 <sup>m</sup>	81°39′	0.01 0.01	22 <sup>h</sup> 40 <sup>m</sup>	81°39′	0.01 0.01	22 <sup>h</sup> 40 <sup>m</sup>	81°39′	10.01	22 <sup>h</sup> 40 <sup>m</sup>	81°39′	0.01 0.01
Í	40.80	62.06	0 -12	38.56	53.26	-6 - 3	38.37	43.06	-5 0	40.25	31.67	+3 +10
2	40.70	61.84	-2 -12	38.52	52.92	-5 + 2	38.40	42.68	-4 + 5	40.34	31.33	+5 +8 -
3	40.60	61.62	-4 -10	38.48	52.58	-3 + 7	*)38.43	42.30	-2 + 9	40.44	30.99	+6 + 5
4	40.50	61.39	<b>−6 − 6</b>	38.45	52.24	0 +10	38.46	41.92	+1 +10	40.54	30.65	+6 0
5	40.40	61.16	-5 - I	38.42	51.89	+3 +11	38.49	41.55	+4 +10	40.64	30.31	+4 - 3
6	40.31	60.92	-4 + 5	38.39	51.54	+5 + 9	38.53	41.17	+6 +7	40.74	29.98	+2 - 6
7	40.21	60.68	-2 + 9	38.36	51.19	+6 + 6	.38.57	40.79	+6 + 3	40.84	29.65	0 - 7
8	40.12	60.43	+1 +11	38.34	50.83	+6 + 2	38.61	40.41	+5 - 1	40.94	29.32	-2 - 6
9	40.03	60.18	+4 +11	38.32	50.47	+5 -2	38.65	40.04	+4 - 4	41.05	29.00	-3 - 4
10	39.95	59.92	+6 +- 9	38.30	50.11	+3 - 5	38.70	39.66	+2 - 6	41.16	28.68	-4 - 2
11	39.86	59.66	+6 + 5	38.28	49.75	+1 = 6	38.75	39.29	-I - 7	41.27	28.36	-4 + I
12	39.77	59.39	+6 0	38.26	.49-39	-ı - 6	38.80	38.91	-3 - 6	41.38	28.04	-4 + 4
13	39.69	59.12	+4 - 3	38.25	49.03	-3 - 4	38.85	38.53	-4 - 3	41.49	27.73	-2 + 6
14	39.61	58.85	+2 -5	38.24	48.66	-4 - 2	38.90	38.15	-4 0	41.61	27.42	-1 + 7
15	39.53	58.57	0 - 6	38.23	48.30	-4 + I	38.96	37.78	-4 + 3	41.73	27.11	+1 +7
16	39.46	58.29	-2 - 5	38.23	47.93	-4 + 4	39.02	37.41	-3 + 5	41.85	26.81	+3 + 5
17	39.38	58.00	-3 - 4	38.22	47.56	-3 + 6	39.08	37.04	-2 + 7	41.97	26.51	+4 + 2
18	39.31	57.71	-4 - 1	38.22	47.19	-1 + 7	39.14	36.67	0 + 7	42.09	26.22	+4 - 2
19	39.25	57.41	-4 + 2	38.22	46.82	+1 +7	39.21	36.30	+2 +7	42.21	25.92	+3 - 6
20	39.18	57.11	-3 + 4	38.23	46.44	+3 + 6	39.27	35.93	+3 + 4	42.34	25.64	+1 -10
21	39.12	56.81	-2 + 6	38.23	46:07	+4 + 3	39.35	35.57	+4 0	42.47	25.35	-ııı
22	39.06	56.50	0 + 7	38.24	45.70	+4 - I	39.42	35.21	+4 - 4	42.60	25.07	-3 -10
23	38.99	56.20	+1 + 6	38.25	45.32	+3 - 5	39.49	34.84	+3 - 8	42.72	24.79	-5 - 8
24	38.94	55.88	+3 + 5	38.27	44.95	+2 - 9	39.56	34.48	+1 -10	42.85	24.51	-6 - 3
25	38.88	55.57	+4 + 1	38.28	44.57	0 —11	39.64	34.12	-2 -II	42.99	24.24	-5 + 2
26	38.83	55-25	+4 - 3	38.30	44.20	-3 -11	39.72	33.76	-4 -10	43.12	23.97	-3 + 7
27	38.78	54.93	+3 - 7	38.32	43.82	-5 - 9	39.80	33.41	-5 - 6	43.26	23.71	-r +ro
28	38.73	54.60	+1 -10	38.34	43.44	-6 - 5	39.89	33.05	-6 - I	43.40	23.45	+2 +11
29	38.68	54-27	-I -I2	38.37	43.06	<b>-5</b> °	39.97	32.70	-4 + 4	43.53	23.20	+4 +10
30	38.64	53-94	-4 -II	100 m			40.06	32.36	-2 + 8	43.68	22.95	+6 + 6
31	38.60	53.60	-5 - 8		100		40.15	32.01	. 0 +10	43.82	22.70	+6 + 2
32	38.56	53.26	-6 - 3	1	A		40.25	31.67	+3 +10	191.32	100 mg	13 (572)
W. C			sec 8	te 8	8	86	ecδ   t	. 8 I	8	sec	οδ   t	g 8

-81° 39′ 20″ 6.895 -6.822 -81° 40′ 0″ -6.818 -81° 39′ 40″ 6.891 6.900 -6.827 6.893 -6.820 6.898 -6.825 6.902 -6.829

 $\alpha_{1947.0} = 22^{h} 40^{m} 46.16$ 

 $\delta_{1947.0} = -81^{\circ} 39' 37.52$ 

<sup>\*)</sup> Tag der doppelten unteren Kulmination: März 3.

Tag

Í

2

3

4 5

6

7

8

9

10

II

12

13

14

15

16

1,7

18

.19

20

21

22

23

24

25

26

27

28

29

30

31

32

AR.

43.82

43.96

44.10

44.24

44.39

44.53

44.68

44.83

44.98

45.13

45.29

45.44 45.60

45.75

45.90

46.06

46.22

46.38

46.54

46.70

46.86

47.02

47.18

47.34

47.50

47.66

47.82

47.99

48.16

48.32 48.49

48.65

22h40m 81° 39

Mai

C Glieder

in

0.01 0.01

+6 + 2

+5 - 2

+3 - 5

+I - 7

-3 - 5

-4 + 3

-3 + 6

-1 + 7

0 + 7

+2 + 6

+3 + 3

+4 - 1

+4 - 5

+2 - 9

0 -11

-2 - 12

-4 -10

-5 - 6

-60

-4

- 3

AF

22h

48.6

48.8

48.

49.

49.

49.

49.0

49.8

49.0

50.1

50.

50.49

50.65

50.82

50.98

51.15

51.31

51.47

51.63

51.79

51.95

52.11

16.57

16.54

16.51

16.49

16.47

16:46

16.45

16.45

16.46

16.47

16.48

+4 - 4

+3 - 8

+1 - 11

-2 -13

-4 - 11

-6 - 8

-6 - 3

-5 + 3

-3 + 8

0 +11

+3 +12

-6.8.8

55.14

55.27

55.41

55.55

55.68

55.81

55.95

56.07

56.20

56.33

56.46

17.91

18.03

18.16

18.30

18.44

18.58

18.73

18.89

19.05

19.21

19.38

-1 - 12

-3 - 13

-5 - 10

-6 - 6

-6 - 1

-4 + 5

-2 + 9

+1 +11

+4 +11

+6 + 8

+6 + 3

Dekl.

22.70

22.45

22,21

21.97

21.74

21.52

21.29

21.08

20.87

20.66

20.46

20.26

20.07

19.88

19.69

19.51

19.34

19.17

19.00

18.84

18.69

18.54

#### Scheinbare Sternörter 1947

Obere Kulmination Greenwich

	Si)	β Octan	tis 4 <sup>m</sup>	34								
	Juni			Juli		August						
R.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder				
50		m	SAFT	_	in		32-37	in				
10 <sup>m</sup>	81° 39′	0.01 0.01	22 <sup>h</sup> 40 <sup>m</sup>	81° 39′	0.01 0.01	22 <sup>h</sup> 40 <sup>m</sup>	81° 39′	0.01 0.01				
65	17.31	a - 7	53.53	16.86	-4 - I	57.59	21.30	-ı + 8				
82	17.21	-2 - 6	53.68	16.93	-4 + 2	57.70	21.52	÷1 + 8				
98	17.12	-4 3	53.83	17.00	-3 + 5	57.80	21.73	+2 + 6				
15	17.04	-4 - I	53.98	17.08	-2 + 6	57.89	21.96	+3 +4				
32	16.96	-4 + 2	54.13	17.16	-1 + 7	57.99	22.18	+4 0				
48	16.89	-3 + 5	54.28	17.25	+1. + 7	58.08	22.41	+4 - 4				
65	16.82	-2 + 7	54.43	17.35	+2 + 5	58.17	22.65	+2 - 8				
82	16.76	0 + 7	54.57	17.45	+3 + 2	58.26	22.89	0 -11				
98	16.71	+1 + 6	54.71	17.56	+4 - 2	58.34	23.13	-2 -12				
15	16.66	+3 4	54.85	17.67	+3 6	58.43	23.37	-4 -I2				
32	16.61	+4 + I	54.99	17.79	. <del>+</del> 2 -10	58.51	23.62	-6 - 8				

58.59

58.66

58.74

58.81

58.88

58.95

59.0E

59.07

59.13

59.18

59.24

23.86

24.12

24.37

24.63

24.89

25.16

25.43

25.70

25.97

26.25

26.52

-6

-5 + 2

-3 + 7

+3 +10

+5 + 9

+6 + 5

+6 + 1

+5 - 3

+3 - 6

> 0 - 7

+10

18.39	-4 + 5	52.28	16.50	+5 +10	56.58	19.56	+6 <b>–</b> 1	59.29	26.80	-2 - 5
18.25	-2 + 9	52.44	16.53	+6 + 6	56.70	19.73	+4 - 4	59.33	27.08	-3 - 3
18.12	+1 +11.	52.59	16.56	+6 + 2	56.82	19.92	+2 - 6	59.38	27.36	-4 0
17.99	+4 +11	52.75	16.59	+5 - 2	56.94	20.10	-ı - 6	59.42	27.65	<del>-4 + 4</del>
17.86	+6 + 8	52.91	16.64	+3 - 5	57.05	20.29	-2 - 4	59.46	27.93	-3 + 6
17.74	+6 + 4	53.06	16.68	+1 - 6	57.17	20.49	-4 - 2	59.50	28.22	-1 + 8
17.63	<del>+6</del> 0	53.22	16.74	-ı - 6	57.27	20.69	-4 + 1	59-53	28.51	0 + 8
17.52	+4 - 4	53.37	16.80	-3 - 4	57.38	20.89	-3 + 4	59.56	28.80	+2 +7
17.41	+2 - 6	53.53	16.86	-4 - I	57.49	21.09	-2 + 6	59.60	29.09	+3 + 5 +4 + 2)
17.31	0 - 7	1.74.65	6224		57.59	21.30	-1 + 8	159.65	29.68	+4 - 2
$\delta$   sec $\delta$   tg $\delta$   $\delta$   sec $\delta$   tg $\delta$   $\delta$   sec $\delta$   tg $\delta$   $-81^{\circ}$ 20' 10''   6.858   $-6.815$   $-81^{\circ}$ 20' 20''   6.801   $-6.818$										

30

0.1947.0 = 22h 40m 46s.6

20

6.891

 $\delta_{1947.0} = -81^{\circ} 39' 37''52$ 

6.893 .

-6.820

Si) \( \beta \) Octantis 4<sup>m</sup>34

	Si) β Octantis 4 <sup>m</sup> 34											
Tag		Septeml	ber		Oktobe	er	November				Dezemb	er
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
100	Series Control	100	in		-	in	S. 121	328	in	·公司信	NINE	in
	22 <sup>h</sup> 40 <sup>m</sup>	81° 39′	0.01 0.01	22 <sup>h</sup> 40 <sup>m</sup>	81° 39′	0.01 0.01	22 <sup>h</sup> 40 <sup>m</sup>	81° 39′	0.01 0.01	22 <sup>h</sup> 40 <sup>m</sup>	81° 39′	0.01 0.01
1	8 (59.62 \59.65	29.38 29.68	+4 + 2 +4 - 2}	59.05	38.44	o —ii	56.18	45.20	-6 - 3	52.24	47.01	-2 + 9
2	59.67	29.00	+4 - 27 + 3 - 6	58.99	38.71	-2 -11	56.06	45.35	-5 + 2	52.10	46.98	+1 +11
3	59.69	30.27	.+ı —ıo	58.93	38.98	-4 -1ô	55.94	45.49	-3 + 7	51.97	46.94	+4 +10
4	59.70	30.56	-I -I2	58.86	39.24	-6 - 6	55.82	45.62	-I +IO	51.84	46.89	+6 + 7
5	59.71	30.86	-3 -12	58.80	39.50	-6 - 2	55.69	45.75	+2 +10	51.70	46.83	+6 + 3
6	59.72	31.16	-5 - 9	58.72	39.76	-5 + 3	55.56	45.87	+4 + 9	51.57	46.77	+5 - 1
7-	59.72	31.46	-6 - 5	58.65	40.02	-3 + 8	55-43	45.99	+6 + 5	51.44	46.70	+4 - 5
8	59.73	31.76	-6 0	58.58	40.28	0 +10	55.31	46.10	+6 + 1	51.30	46.63	+r - 7
9	59-73	32.06	-4 + 5	58.50	40.53	#3 + 9	55.18	46.20	+5 - 3	51.17	46.55	-I - 7
10	59.73	32.36	-2 + 9	58.42	40.78	+5 + 7	55.05	46.30	+3 - 6	51.04	46.47	-3 - 5
II	59.73	32.66	+1 +10	58.34	41.03	+6 + 3	54.92	46.40	o - 7	50.91	46.37	-4 - 2
12	59.72	32.95	+4 + 9	58.26	41.27	∵+6 — ı	54.79	46.49	-2 - 7	50.78	46.27	-4 + r
13	59.71	33.25	+6 + 6	58.17	41.51	+4 - 5	54.66	46.57.	-3 - 4	50.66	46.17	-3 + 5
14	59.69	33.55	+6 + 2	58.08	41.74	+2 - 7	54.53	46.65	-4 - I	50.53	46.06	-2 + 7
15	59.68	33.85	-1-5 - 2	57-99	41.97	0 - 7	54.39	46.72	-4 + 2	50.40	45.94	-1 + 8
16	59.65	34.14	+3 - 5	57.90	42.19	-2 - 6	54.26	46.78	-3 + 5	50.28	45.81	+1 + 8
17	59.63	34.44	+1 - 7	57.80	42.41	-4 - 3	54.13	46.84	-2 + 8	50.15	45.68	+3 + 6
18	59.61	34.74	-1 - 6	57.70	42.63	-4 o	53.99	46.90	0 + 8	50.03	45.55	+4 + 4
19	59.58	35.03	-3 - 4	57.61	42.85	<u>-4</u> + 4	53.86	46.94	+2 +8	49.91	45.41	+4 0
20	59.55	35.33	-4 - I	57.51	43.06	-3 + 6	53.72	46.98	+3 + 5.	49.79	45.26	+4 - 5
21	5,9.52	35.62	-4 ·· · 2	57.41	43.26	-1 + 8	53.59	47.02	+4 + 2	49.67	45.11	+2 - 9
22	59.48	35.91	-3 + 5	57.30	4316	+1 + 8	53.45	47.05	+4 - 2	49.55	44.95	0 -12
23	59.45	36.20	-2 7	57.20	43.66	+2 +7	53.32	47.07	+3 - 6	49.43	44.79	-2 -13
24	59.41	36.48	0 + 8	57.09	43.85	+3 + 4	53.18	47.08	+1 -10	49.32	44.62	-4 -12
25	59.36	36.77	+1 +8	56.98	44.03	+4 + I	53.05	47.09	-I -I2	49.21	44.44	-6 - 8.
26	59.32	37.05	+3 +1.6	56.87	44.21	+4 - 3	52.91	47.09	-3 -12	49.10	44.26	-6 - 3
2.7	59.27	37.33	+4 + 3/	56.76	44.39	+3 - 7	52.77	47.09	-5 -10	48.99	44.08	-5 + 2
28	59.22.	37.61	+4 - 1	56.65	44.56	i —10	52.64	47.08	-6-5	48.88	43.89	-3 + 7
29	59.17	37.89	+4 - 5	56.54	44-73	-1 -12	52.50	47.06	<u>-6</u> o	48.77	43.69	0 +10
30	59.11	38.17	+2 - 8	56.42	44.90	-4 -11	52.37	47.04	<u>-4</u> + 5	48.66	43.49	+3 +11.
31	59.05	38.44	0 -11	56.30	45.05	-5 - 8	52.24	47.01	-2 + 9	48.56	43.28	+5 + 9
32	7	965	1280.5	56.18	45.20	-6 - 3	5.45		No. of Street	48.45	43.06	+6 + 5
CESSION	12-11-65	W. Erich	STORY STORY	CONTRACT TO		1000 B 1000 B	20020000	1. 16 2 W.	2000	575.04-5020	F. CON	S 50 778 - 17

α<sub>1947.0</sub> = 22<sup>h</sup> 40<sup>m</sup> 46.16

 $\delta_{1947.0} = -81^{\circ} 39' 37.752$ 

Sk)	τ	Octantis	5 <sup>m</sup> 56
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Yet o	3 <sup>h</sup> 20 <sup>m</sup>	Dekl.	© Glieder	AR.	1 14		and the second			CONTRACTOR DESCRIPTION	April	
Yet o	3 <sup>h</sup> 20 <sup>m</sup>	12.0	THE PROPERTY AND ADDRESS OF		Dekl.	C Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
Yet o	3 <sup>h</sup> 20 <sup>m</sup>		· in.	29.80	653	in			in		32	in
11-16	C-15 (19)	87° 46′	10.0 10.0	23 <sup>h</sup> 20 <sup>m</sup>	87° 46′	10.0 10.0	23 <sup>h</sup> 20 <sup>m</sup>	87° 46′	0.01 0.01	23 <sup>h</sup> 20 <sup>m</sup>	87° 46′	0.01 0.01
	8		0	8		-0	8	" .		8	The state of the s	
	45.32	52.58	+ 8 -11	33.41	44.39	$\begin{vmatrix} -18 - 5 \\ -18 & 0 \end{vmatrix}$	29.02	34.16	-19 - 2	31.99	22.18	+ 4 +11
AND RESPONDENCE	44.84	52.39	- I -I2	33.14	44.06		28.99 28.96	33.77	-17 + 3	32.22	21.81	+12 + 9 +18 + 6
The same of	44·37 43.90	52.20 52.00	- 9 -11 -15 = 7	32.62	43.73	$\begin{vmatrix} -15 + 6 \\ -7 + 9 \end{vmatrix}$	28.95	33.38	-11. + 8 -2. +10	32.45 32.70	21.44	+19 + 2.
CORNELL DE	43.44	51.79	-19 - 2	32.38	43.05	+ 2 +11	28.94	32.60	+ 7 +10	32.95	20.70	+17 - 2
3 4	43.44	319		32.30	43.03		WEST LO	32.00		32.93	20.70	
6 4	42.99	51.58	-17 + 3	32.14	42.70	+11 +10	28.94	32.21	+15 + 8	33.21	20.34	+12 - 5
200000000000000000000000000000000000000	42.54	51.37	-11 + 8	31.91	42.36	.+17 + 8	28.95	31.82	+19 + 5	33.47	19.98	+ 5 - 7
Mark The Co.	42.09	51.14	- 3 +II	31.69	42.00	+20 + 4	28.97	31.43	+19 + 1	33.75	19.62	-3-7
	41.66	50.92	+ 7 +12	31.47	41.65	+19 0	29.00	31.04	+16 - 3	34.03	19.27	-9-5
10 4	41.23	50.68	+14 +10	31.27	41.29	+14 - 4	29.04	30.64	+9-5	34.31	18.92	-14 <del>-</del> 3
11 4	40.80	50.44	+19 + 6	31.07	40.93	+7-6	29.08	30.25	+2-6	34.61	18.57	<b>−16</b> ⋄
12 4	40.38	50.20	+20 + 2	30.88	40.58	<b>– 1</b> – 6	29.14	29.86	-5-6	34.91	18.22	-15 + 3
M. PARKETON POR	39.96	49.96	+17 - 2	30.70	40.21	-7-5	*)29.20	29.47	-11 - 4	35.22	17.87	-12 + 5
14 3	39.56	49.71	+11 - 5	30.53	39.85	-13 - 3	29.27	29.07	-15 - 2	35.53	17.53	-7 + 7
15 3	39.16	49.45	± 3 - 6	30.37	39.48	<b>−16</b> 0	29.35	28.68	-16 + 1	35.86	17.19	0+7
16 2	38.76	40 TO	_ 1 _ 6	30.22	20.11		20.42	28.29		36.19	16.85	J. 67 J. 6
Charles In 1993	38.37	49.19	-4-6 $-9-5$	30.22	39.11 38.74	-15 + 2 $-12 + 5$	29.43	27.90	-14 + 4 $-10 + 6$	36.52	16.52	+7+5 +12+3
200 0000	37.99	48.65	-14 - 2	29.94	38.37	-8+6	29.53	27.51	DOCUMENTS.	36.87	16.19	+15 - 1
	37.62	48.38	-16 0	29.94	37.99	-2+7	29.75	27.13	-4+7 +3+7	37.22	15.86	+15 - 5
	37.25	48.09	-14 + 3	29.70	37.61	+ 5 + 6	29.75	26.74	+9+5	37.58	15.54	+11 - 9
20	31.23	3136,60	7	29.70	37.01		29.00	1678 26	1-9 1 3	31.30	-3.34	
CC 2 / 7 / Pro-	36.89	47.80.	-11 + 5	29.59	37.23	+11 + 4	30.01	26.35	+14 + 2	37.95	15.22	+ 4 -11
22 3	36.54	47.51	-6+6	29.49	36.86	+14 0	30.15	25.97	+15 - 2	38.32	14.90	- 4 -11
	36.19	47.22	0+6	29.39	36.48	+15 - 4	30.30	25.58	+14 - 6	38.69	14.58	-12 - 9
COLUMN TO SERVICE STREET	35.85	46.92	+7+*5	29.31	36.10	+12 - 8	30.45	25.20	+9-9	39.08	14.27	-17 - 5
25 3	35.52	46.62	+12 + 2	29.23	35.7₹	+ 6 -10	30.61.	24.81	+ 1 -11	39-47	13.96	-18 0
26 2	35.20	46.31	+15 — I	29.16	35.33	- 2 -11	30.79	24.43	- 7 -10	39.86	13.65	-15 + 6
	34.88	46.00	+14 - 6	29.11	34.94	-10 -10	30.97	24.05	-14 - 8	40.26	13.35	-9+9
O IN PROPERTY.	34.57	45.69	+10 - 9	29.06	34.55	-16 - 7	31.15	23.67	-18 - 3	40.67	13.05	0 +11
CT	34.27	45.37	+ 3 -i2	29.02	34.16	-1g - 2	31.35	23.30	-18 + 2	41.09	12.76	·+ 9 +10
CONTRACTOR OF THE PARTY OF THE	33.98	45.05	- 5 -I2				31.56	22.92	-13 + 7	41.51	12.47	+16 + 8
		44 70	10						# .1.70	47.04	TOTO	
	33.69	44.72	-13 - 9	1000	TAX S		31.77	22.55	- 5 +10 - 4 +11	41.94	12.19	+19 + 4
32 3	33.41	44.39	18 5		200	Control of the last	31.99	22.18	+ 4 +11	10000	The same	100000

$$\delta_{1947.0} = -87^{\circ} 46' 26.73$$

 $<sup>\</sup>alpha_{1947.0} = 23^h 20^m 55.19$ 

<sup>\*)</sup> Tag der doppelten unteren Kulmination: März 13.

Obere Kulmination Greenwich

Sk)	τ Octantis	5 <sup>m</sup> 56
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2.200	SK) T Octables 5.50											
Tag		Mai			Juni		*	Juli		August		
-ag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
100	10 100	-	in	4.79	14-1	in	2570	343	in			in
	23 <sup>h</sup> 20 <sup>m</sup>	87°46′	10.01	23 <sup>h</sup> 20 <sup>m</sup>	87°46′	0.01 0.01	23 <sup>h</sup> 21 <sup>m</sup>	87° 46′	0.01 0.01	23 <sup>h</sup> 21 <sup>m</sup>	87°46′	10.0 10.0
I	41.94	12.19	+19 + 4	57.46	5.50	+ 3 - 6	14.49	3.78	-13 - 2	30.10	7.19	-8+7
2	42.37	11.91	+18 0	58.02	5.36	-4-6	15.05	3.81	-15 0	30.52	7.38	-3 + 7
3	42.80	11.63	+15 - 4	58.58	5.22	-10 - 4	15.61	3.85	-15 + 3	30.93	7.57	+ 3 + 7
4	43.24	11.35	+8-6	59.14	5.10	-14 - 2	16.16	3.89	-11 + 5	31.34	7.77	+9+5
5	43.69	11.08	0-7	59.70	4.98	-15 + 1	16.71	.3.93	7 + 7	31.74	7.97	+14 + 1
6	44.14	10.82	-7-6	60.26	4.86	-14 + 4	17.26	3.98	-1+7	32.13	8.18	+15 - 3
7	44.60	10.55	12 - 4	60.82	4.75	-11 + 6	17.80	4.04	+5+6	32.51	8.39	+13 - 7
8	45.06	10.30	-15 - 1	61.39	4.65	-5+7	18.34	4.10	+11 + 3	32.89	8.61	+ 8 -10
9	45.53	10.04	-16 + 2	61.96	4.55	+ 1 + 7	18.88	4.17	+14 0	33.26	8.83	+ 1 -12
10	46.01	9.79	-14 + 4	62.53	4.46	+8+5	19.42	4.25	+15 - 5	33.62	9.05	- 7 -I2
II	46.49	9.55	<b>-9+6</b>	63.10	4.37	+13 + 3	19.95	4-33	+12 - 9	33.98	9.28	-15 -10
12	46.97	9.31	-3 + 7	63.67	4.29	+15 - 2	20.48	4.41	+ 6 -12	34-33	9.51	-20 - 5
13.	47.46	9.07	+4+6	64.24	4.21	+14 - 6	21.01	4.50	- 3 -13	34.67	9-75	-20 o
14	47.95	8.84	+10 + 4	64.81	4.14	+10 -10	21.53	4.59	-1111	35.00	9.99	-15 + 5
15	48.45	8.61	+14 0	65.39	4.07	+ 3 -12	22.05	4.69	-18 - 8	35.32	10.23	-7+9
16	48.95	8.39	+16 - 4	65.96	4.01	- 6 -12	22.56	4.80	-20 - 3	35.64	10.47	+ 3 +11
17	49.46	8.17	+13 - 8	66.53	3.96	-14 -10	23.07	4.91	-18 + 3	35.94	10.72	+12 +10
18	49-97	7.96	+ 7 -11	67.10	3.91	-19 - 5	23.57	5.03	-12 + 8	36.24	10.97	+19 + 7
19	50.48	7.75	- I -I2	67.68	3.87	-19 + I	24.07	.5.15	- 2 +11	36.53	11.23	+21 + 3
20	51.00	7.55	- 9 -10	68.25	3.83	-15 + 6	24.57	5.28	+7-111	36.82	11.49	+19 — 1
21	51.52	7.35	-16 7	68.83	3.80	- 7 +10	25.06	5.41	+15 + 9	37.09	11.75	+12 - 5
22	52.04	7.16	-19 - 2	69.40	3.77	+ 2 +12	25.55	5.55	+20 + 5	37.36	12.01	+5-6
23	52.57	6.97	-17 + 4	69.97	3.75	+11 +11	26.03	5.69	+20 + 1	37.61	12.28	-3-6
24	53.10	6.78	-12 + 8	70.54	3.73	+18 + 8	26.50	5.83	+16 - 3	37.86	12.55	-10 - 4
25	53.63	6.60	- 3 +11	71.11	3.72	+21 + 4	26.97	5.99	+9-5	38.09	12.82	-14 - 1
26	54.17	6.43	+ 6 +12	71.68	3.72	+19 0	27.44	6.14	+ 1 - 6	38.32	13.10	-15 + 2.
27	54.71	6.26	+14 +10	72.25	3.72	+13 - 4	27.89	6.30	-6-5	38.54	13.38	-14 + .2
28	55.26	6.10	+19 + 6	72.81	3.73	+6-6	28.35	6.47	-11 - 3	38.74	13.66	—ro + 7
29	55.80	5.94	+20 + 2	73-37	3.74	-26	28.79	6.64	<b>-14</b> 0	38.94	13.94	-5 + 8
30	56.36	5.79	+17 - 2	73.93	3.76	<b>-8-5</b>	29.23	6.82	-15 + .3	39.13	14.23	+2+7
31	56.91	5.64	+11 - 5	74.49	3.78	-13 - 2	29.67	7.00	-13 + 6	39.31	14.51	+7.+6
32	57.46	5.50	+3-6	100			30.10	7.19	-8 + 7	39.48	14.80	+12 + 3
(1995)	N. F. C. R. W.	10000000	35 W 75 S 50 S 7	A 1700	15 95005	1000000	TO PROVE	MAN 1937	5000000	4430 23	10 8 6 6 B	1-50-TO (\$175.05

 $\alpha_{1947.0} = 23^{h} 20^{m} 55.19$   $\delta_{1947.0} = -87^{\circ} 46' 26.73$ 

Sk)	τ	Octantis	5 <sup>m</sup> 56
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		Septeml	oe <b>r</b>		Oktob	er		Novemb	er	Dezember		
Tag	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder	AR.	Dekl.	© Glieder
1000		A 402	in	4-418	1000	in		1 E	in	50000	3200	in
	23 <sup>h</sup> 21 <sup>m</sup>	87° 46′	0.01 0.01	23 <sup>h</sup> 21 <sup>m</sup>	87° 46′	0.01 0.01	23 <sup>h</sup> 21 <sup>m</sup>	87° 46′	10.01	23 <sup>h</sup> 20 <sup>m</sup>	87° 46′	0.01 0.01
` I.	39.48	14.80	+12 3	39.69	24.17	+ 7 -10	30.50	31.91	-19 - 5	75.65	34.98	-12. + 8
2	39.63	15.09	+15 - 1	39.53	24.46	- 1 -12	30.07	32.09	<b>-20</b> 0	75.11	34.98	- 3 +11
3	39.78	15.39	+14 - 5	39.36	24.75	- 9 -II	29.64	32.27	-16 + 5	74.57	34.98	+7+11
4	39.92	15.68	+11 - 9	39.18	25.04	-16 - 8	29.21	32.45	-9+9	74.03	34.98	+15 + 9
5	40.05	15.98	+ 4 -11	38.99	25.33	-19 - 3	28.76	32.62	+ 1 +10	73.48	34.96	+20 + 5
6	40.17	16.28	- 4 -12	38.79	25.62	-19 + 2	28.31	.32.78	+10.+10	72.94	34.94	+20 0,
7	40.28	16.58	-12 -10	.38.58	25.90	-14 + 6	27.85	32.94	+17 + 7	72.40	34.92	+16 - 3
8	40.38	16.88	-18 - 7	38.37	26.18	-5 + 9	27.39	33.09	+20 + 3	71.85	34.88	+ 9 - 6
9	40.47	17.18	-20 - 2	38.14	26.46	+ 4 +10	26.93	33.24	+18 - 1	71.31	34.85	+ r - 7
IO	40.55	17.48	-17 + 3	37.91	26.74	+13 + 8	26.46	33.38	+14 - 5	70.77	34.80	-6-6
11	40.62	17.78	-11 + 8	37.66	27.01	+19 + 5	25.98	33.52	+6-7	70.23	34.75	-12 - 3
12	40.68	18.08	- I + IO) + 9 + IO)	37.41	27.28	+20 + I	25.50	33.65	-2-7	69.69	34.69	<b>-15</b> 0
13	40.77	18.70	+16 + 8	37.14	27.55	+17 - 3	25.01	33.77	-9-5	69.16	34.63	-15 + 3
14	40.79	19.00	+20 + 4	36.87	27.81	+11 - 6	24.52	33.89	-13 - 2	68.62	34-55	-12 + 6
15	40.81	19.31	- <del></del>	36.59	28.07	+ 3 - 7	24.02	34.00	-16 + 1	68.08	34.48	-8 + 7
16	40.82	19.62	+15 - 4	36.29	28.33	-5-6	23.52	34.11	-14 + 4	67.55	34.39	-2 + 8
17.	40.81	19.93	+8-6	35.99	28.58	-11 - 4	23.02	34.21	-11 + 7	67.01	34.30	+ 5 + 7
18	40.80	20.24	0 - 6	35.68	28.83	-15 - 1	22.51	34.31	-6 + 8	66.48	34.20	+11 + 5
19	40.78	20.55	-8 - 5	35.36	29.08	-16 + 2	22.00	34.40	+ 1 + 8	65.95	34.10	+15 + 1
20	40.74	. 20.86	-13 - 2	35.04	29.32	-13 + .5	21.49	34.49	+7+6	65.43	33.99	+16 - 3
21	40.70	21.16	-15 - 1	34.70	29.56	-9+7	20.97	34.56	+12 + 3	64.91	33.87	+13 - 7
22	40.64	21.47	-15 + 4	34.36	29.80	-3 + 8	20.45	34.63	+16 - 1	64.39	33.75	+ 8 -11
23	40.58	21.77	-12 + 6	34.01	30.03	+4+7	19.92	34.70	.+15 - 5	.63.87	33.62	+ 1 -13
24	40.50	22.08	-7 + 8	33.65	30.26	+ 9 + 5	19.40	34.76	. +12 9	63.36	33.48	<b>− 8 −12</b>
25	40.42	22.38	0 + 8	33.28	30.48	+14 + 2	18.86	34.81	+ 5 -11	62.85	33-34	–16 ∹10
26.	40.32	22.68	+6+7	32.90	30.70	+15 - 2	18.33	34.85	- 3 -12	62.35	33.19	-20 <u>-</u> 5
27	40.21	22.98	+11 + 4	32.52	30.91	+14 - 6	17.80	34.89	-11 -11	61.84	33.04	-20 + I
28	40.10	23.28	+15 + 1	32.13	31.12	+10 -10	17.26	34.92	-17 - 7	61.34	32.88	-15 + 6
29	39.97	23.58	+15 - 3	31.73	.31.32	+ 2 -11	16.72	34.95	-20 <b>-</b> 2	60.85	32.71	- 7 +10
30	39.83	23.88	+13 - 7	31.33	31.52	- 6 -II	16.19	34-97	-18 + 4	60.36	32.54	+ 3 +11
31	39.69	24.17	+ 7 -10	30.92	31.72	<u>-14 - 9</u>	15.65	34.98	-12 + 8	59.87	32.36	+12 +10
32		- 18	92	30.50	31,91	-19 - 5	3	- 125-3		59-39	32.17	+19 + 7
1 7 7	20.00		STATE STATE			Salar Salar	33 3 44	200	580 Billion	1 37 07		2010000

$$\alpha_{1947.0} = 23^h 20^m 55^s 9$$

$$\alpha_{1947.0} = 23^{h} 20^{m} 55^{s}, 9$$
 $\delta_{1947.0} = -87^{o} 46' 26.73$ 

Tag	BD + Gr. 10			+89° 3 9 <b>™</b> 06	BD +3 Gr. 10			–89° 38 9™5	Kurzp Nutat glied	
1947	$\boldsymbol{x}$	y	x	y	$\boldsymbol{x}$	y	x	y	in $x$ Einh.	in y
Jan. o	-433.95	+72.70	-235.89	+857.71	-1215.37	-352.40	+88.21	-307.41	+ 4	-10
I	433.96	72.36		857.37	1215.39	352.75	88.35	307.73	+ 8	- 8
2	433.97	72.01	THE RESERVE OF THE PARTY OF THE	857.03	1215.40	353.10	88.49	308.04	+11	<b>—</b> 5
3	433.97	71.67		856.69	1215.40	353.44	88.64	308.35	+12	0
4	433.97	71.33		856.35	1215.40	353.78	88.79	308.66	+10	+ 5
5	-433.96	+70.99	-235.91	+856.01	-1215.39	-354.12	+88.95	-308.97	+ 6	+ 9
6	433.94	70.65		855.67	1215.37	354.46	89.12	309.27	+ 1	+11
7	433.92	70.31	The state of the s	855.33	1215.35	354.80	89.29	309.57	- 4	+10
8	433.89	69.97		854.99	1215.32	355.14	89.46	309.87	- 9	+ 6
.9	433.85	69.63		854.65	1215.28	355.48	89.65	310.17	-11	+ 2
10	<b>-433.8</b> 1	+69.29	-235.76	+854.32	-1215.24	-355.82	+89.83	-310.47	-12	— 3
11	433.76	68.96		853.98	1215.19	356.15	90.03	310.76	-10	- 8·
12	433.70	68,62	Committee of the Commit	853.65	. 1215.13	356.49	90.23	311.05	6	-10
13	433.64	68.29		853.32	1215.07	356,82	90.43	311.34	<b>— 2</b>	-10
14	433.57	67.96		852,99	1215.00	357.15	90.64	311.62	+ 2	<b>— 8</b>
		+67.64		+852.66	-1214.92	-357.47	+90,86	-311.90	+ 5	<b>–</b> 5
15 16	-433.49	67.31		852.34	1214.92	357.80	91.08	312.18	+ 6	- I
17	433.41 433.32	66.99		852.02	1214.76	358.13	91.31	312.46	+ 6	+ 3
18	433.23	66.66	THE RESERVE OF THE PARTY OF THE	851.70	1214.66	358.45	91.54	312.73	+ 4	+ 6
19	433.13	66.35		851.38	1214.57	358.77	91.78	313.00	+ 2	+ 8
Mars North		The state of								+ 9
20	-433.03	+66.03		+851.06	-1214.46	-359.08	+92.02	-313.27	0	+ 9
21	432.91	65.72	PERSONAL PROPERTY.	850.75	1214.35	359.40	92.27 92.52	313.53	- 3 - 5	+ 6
- 22	432.79	65.41		850.44 850.13	1214.23	359.71 360.02	92.52	313.79 314.04	— 5 — 6	+ 3
23	432.67	64.79		849.83	1213.97	360.02	92.76	314.30	<b>–</b> 6	- I
24	432.54					MINNESS CAR	CARL CONT.			2000
25	-432.40	+64.49		+849.53	-1213.84	-360.63	+93.31	-314.54	<b>—</b> 5	- 5
26	432.25	64.19		849.23	1213.69	360.93	93.58	314.79	_ 2	<b>—</b> .8
27	432.10	63.89		848.93	1213.54	361.23	93.86	315.03	+ 2	- 9
28	431.95	63.60		848.64	1213.39	361.53	94.14	315.27	+ 6	- 9 - 6
29	431.79	63.30	233.76	848.35	1213.23	361.82	94.42	315.51		
30	-431.63	+63.02		+848.06	-1213.07	-362.11	+94.71	-315.74	+12	<b>— 2</b>
31	431.46	62.74		847.78	1212.90	362.39	95.00	315.97	+11	+ 3
Febr. 1	431.28	62.46	0.0000000000000000000000000000000000000	847.50	1212.72		95.30	316.19	+ 8	+ 7
2	431.10	62.18	The second secon	847.23	1212.54	362.94	95.60	316.41	+ 4	+10
3	430.91	61.92	232.88	846.96	1212.35	363.21	95.91	316.62	— І	+10
4	-430.72	+61.65	-232.69	+846.70	-1212.16	-363.48	+96 22	-316.83	- 6	+ 8
5	430.52	61.39	232.49	846.44	1211.96	363.74	96.53	317.04	-10	+ 4
6	-430.32	+61.13	-232.29	+846.18	-1211.76	-364.00	+96.85	-317.25	-11	<b>–</b> 1
Mittl.Ort		+78.25		+863.28	_120I.47	-346.91	+114.75	—307.15		

<sup>\*)</sup> Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1947

Kooru	Inaren	uer	schein	рагеп	Orter 1	ur 12-	Breinz	er Gr	веп м	161
Tag	BD + Gr. 10		The second	+89° 3 9 <u>™</u> 06	BD + Gr. ī			-89° 38	Kurzp Nutat	tions-
1947	x	y	x	y	x	y	x	y	in $x$	in y
Febr. 6	-430.32	+61.13	-232.29	+846.18	-1211.76	-364.00	+ 96.85	-317.25	-11	<b>–</b> 1
7	430.11	60.88	and the second second second	845.93	1211.55	364.26	97.17	317.45	-10	- 6
8	429.90	60.63		845.68	1211.34	364.51	97.49	317.64	- 7	- 9
9	429.69	60.38		845.43	1211.13	364.75	97.82	317.83	- 3	-11
10	429.47	60.14		845.19	1210.91	364.99	98.15	318.02	+ 1	-10
II	-429.24	+59.91		+844.96	-1210.68	-365.23	+ 98.48	-318.20	+ 4	- 7
12	429.01	59.68	The second second second	844.73	1210.45	365.46	98.82	318.37	+ 6	- <i>7</i>
13	429.01	59.45		844.50	1210.45	365.68	99.16	318.54	+ 6	- 3 + 1
13	428.54	59.43		844.28	1209.98	365.90	99.50	318.71	+ 5	+ 5
15	428.29	59.02	Contract of the Contract of th	844.07	1209.93	366.12	99.85	318.87	+ 3	+ 8
	1,000,000	1000		DOMESTIC OF THE		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				
16	-428.04	+58.81	The state of the s	+843.86	-1209.49	-366.33	+100.20	-319.03	0	+ 9
17	427.79	58.60		843.65	1209.24	366.54	100.55	319.18	- 2	+ 9
18	427.53	58.40		843.45	1208.98	366.74	100.90	319.33	<b>—</b> 5	+ 7
19	427.28	58.21	229.25	843.26	1208.73	366.93	101.26	319.48	6	+ 4
20	427.01	58.02	228.98	843.07	1208.46	367.12	101.62	319.62	- 7	+ 1
21	-426.75	+57.83	-228.72	+842.88	-1208.20	-367.31	+101.98	-319.75	- 6	- 3
22	426.48	57.66	228.45	842.71	1207.93	367.48	102.35	319.88	<b>—</b> 3	<b>—</b> 7
. 23	426.21	57.48	228.18	842.53	1207.65	367.66	102.72	320.01	0	- 9
24	425.93	57.32	227.90	842.37	1207.37	367.82	103.09	320.13	+ 4	- 9
25	425.65	57.16	227.62	842.21	1207.09	367.98	103.46	320.24	+ '8	<b>—</b> 8
26	-425.37	+57.00	-227.34	+842.06	—1206.81	-368.14	+103.83	-320.35	+11	- 4
27	425.09	56.85		841.91	1206.52	368.29	104.21	320.46	+11	+ 1
28	424.80	56.71		841.76	1206.24	368.43	104.58	320.56	+ 9	+ 6
März 1	424.51	56.57		841.63	1205.96	368.57	104.96	320.66	+ 6	+ 9
2	424.22	56.44		841.50	1205.66	368.70	105.34	320.75	+ I	+10
	ALABAMA S		Section No. 194	The State of the S		-368.82	MODE STATE			
3	-423.92	+56.31	CONTRACTOR TO SALED	+841.37	-I 205.37	368.94	+105.72	-320.84	- 4 - 8	+ 9
4	423.63	56.19 56.09	TOTAL CONTRACTOR	841.25	1205.07	369.06	106.11	320.92	C (2.00)	+ 6
5	423.33	The second second	The second second second	841.14	1204.77	369.00	106.88	320.99	—10	
7	423.03	55.98 55.88		840.93	1204.40	369.17	100.88	321.06	— 8	- 4 - 8
Alle Alle Control		OF THE PARTY OF TH						7 19 19		- 0
8	-422.42	+55.78		+840.83	-1203.85	-369.37	+107.66	-321.19	- 4	-10
9	422.11	55.69		840.74	1203.54	369.46	108.05	321.25	0	—ro
10	421.80	55.61		840.66	1203.23	369.54	108.43	321.30	+ 3	8
II	421.50	55.53		840.58	1202.93	369.62	108.82	321.35	+ 5	<b>—</b> 5
12	421.19	55.46	223.17	840.51	1202.62	369.69	109.22	321.39	+ 6	- I
13	-420.88	+55.40	-222.86	+840.45	-1202.31	-369.76	+109.61	-321.43	+ 6	+ 3
14	420.57	55.34	222.55	840.39	1202,00	369.82	110.00	321.46	+ 4	+ 7
15	-420.26		-222.24	+840.34	-1201.69	-369.87	+110.40	-321.49	+ 2	+9
					200					
Mittl.Ort	-420.02	+78.25	-222,02	+863.28	—1201.47	-346.91	+114.75	-307.15	1	
200 100 11 10	1000	- Paris - 100 -	The second of	CONTRACTOR OF THE PARTY OF THE	F TOURSET IS	59/	Control of the Control	- Table - 1 (2)	-	

<sup>\*)</sup> Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

CH.	BD +	-89° 1	BD +89° 3 Gr. 9™06		BD +	89° 37	CPD	-89° 38		period.
Tag	Gr. 1	Acres of the	Gr.	9 <sup>m</sup> 06	Gr. 1	o <u>m</u> 06		9 <sup>m</sup> 5		tions- der*)
1947	·x	y	x	y	x	y	x	y	in x Einh	in y
März 15	-420,26	+55.29	-222.24	+840.34	-1201.69	-369.87	+110.40	-321.49	+ 2	1+9
16	419.94	55.25		840.30	,1201.37		110.79		<b>—</b> 1	+ 9
17	419.63	55.21	221.61	840.26	1201.06		111.19		- 4	+ 8
18	419.32	55.18		840.23	1200.75		111.58	The same of the sa		+ 5
19	419.01	55.15	220.99	840.20	1200.44	370.01	111,97	321.55	- 7	+ 2
20	-418.69	+55.13	-220.67	+840.18	-1200.12	-370.03	+112.36	-321.55	- 6	2
21	418.38	55.11	220.36	840.16	1199.81	370.05	112.75	321.55	- 4	<b>-</b> 6
22	418.07	55.11		840.16	1199.50	and the same of the same	113.14	321.54	— I	- 8
23	417.76	55.11	The second second second	840.16	1199.19		113.53	321.53	+ 3	- 9
23	417.44	55.11	219.42	840.16	1198.87	370.05	113.93	321.51	+ 7	- 8
24	-417.13	+55.12	-219.11	+840.17	-1198.56	-370.04	+114.33	-321.48	+10	- 5
25	416.81	55.14		840.19	1198.24		114.72	321.45	+11	<b>–</b> I
26	416.50	55.17		840.22	1197.93	369.99	115.12	321.42	+10	+ 4
27	416.19	55.20	The second secon	840.25	1197.62	369.96	115.51	321.38	+.7	+ 8
28	415.88	55.24	217.86	840.28	1197.31	369.93	115.90	321.34	+ 2	+10
29	-415.57	+55.28	-217.55	+840.32	-1197.00	-369.89	+116.29	-321.30	<b>—</b> 3	+10
30	415.26	55.33	217.24	840.37	1196,69	369.84	116.68	321.25	- 7	+ 7
31	414.96	55.38		840.42	1196.39	369.79	117.07	321.19	-10	+ 3
April 1	414.65	55.44		840.48	1196.08	369.73	117.46	321.13	-10	- 2
2	414.35	55.51	216.33	840.55	1195.78	369.66	117.84	321.06	<b>-</b> 9	- 7
3	-414.05	+55.58	-216.03	+840.62	-1195.48	-369.59	+118.22	-320.99	<b>–</b> 6	-10
4	413.76	55.66	215.74	840.70	1195.19	369.51	118.61	320.91	- 2	-10
5	413.46	55.74	215.44	840.79	1194.89	369.42	118.99	320.83	+ 2	- 9
6	413.16	55.83		840.88	1194.59	369.33	119.37	320.75	+ 5	- 6
7	412.87	55.92	214.85	840.97	1194.30	369.24	119.75	320.66	+ 6	- 2
8	-412.58	+56.02	-214.56	+841.07	-1194.01	-369.14	+120.13	-320.57	+ 6	+ 2
9	412.29	56.13	214.28	-841.18	1193.72	369.03	120.50	320.47	+ 5	+ 6
10	412.01	56.24	213.99	841.29	1193.44	368.92	120.88	320.36	+ 3	+ 8
II	411.72	56.36	213.71	841.41	1193.15	368,80	121.25	320,26	0	+ 9
12	411.44	56.48	213.43	841.53	1192.87	368.68	121.62	320.14	- 3	+ 9
13	-411.17	+56.61	-213.15	+841.66	-1192.60	-368.55	+121.99	-320.02	- 5	+ 7
14	410.89	56.75	212.88	841.80	1192.32	368.41	122.36	319.90	- 6	+ 4
15	410.62	56.89	212.61	841.94	1192.05	368.27	122.72	319.77	- 6	- 1
16	410.35	57.04	212.34	842.09	1191.78	368.13	123.08	319.64	<b>-</b> 5	- 5
17	410.08	57.19	212.07	842.24	1191.51	367.98	123.44	319.50	- 2	- 8
18	-409.82	+57.34	-211.81	+842.39	-1191.25	-367.82	+123.80	-319.36	+ 2	- 9
19	409.56	57.50	211.56	842.55	1190.99	367.66	124.15	319.22	+ 6	- 9
20	-409.31	+57.67	-211.31	+842.72	-1190.73	-367.50	+124.50	-319.07	+9	- 7
Mittl.Ort	-420.02	+78.25		+863.28		., -346.91	+114.75	—307.15		

<sup>\*)</sup> Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Koordinaten der scheinbaren Örter für 12h Sternzeit Greenwich

	- 100			Daien			1			
m1	BD +	89° 1	BD -	+89° 3	BD +	89° 37	CPD -	-89° 38	Kurzp	
Tag	Gr. 10	om 56	Gr.	9 <u>m</u> 06	Gr. 1	o m o 6	Gr.	9 <sup>m</sup> 5	Nutat	ions- ler*)
			CONCERN.						8	
1947	x	y	x	y	x	y	x	y	$\inf x$	in y
	11	"	11-	"	11		п.	11	Einh.	
April 20	-409.31	+57.67		+842.72	-1190.73	-367.50	+124.50	-319.07	+ 9	- 7
21	409.06	57.84		842.89	1190,48	367.33	124.85	318.92	+11	- 3
22	408,81	- 58.01		843.06	1190.23	367.15	125.20	318.76	+10.	+ 2
23	408.57	58.19		843.24	1189.99	366.97	125.54	318.60	+ 8	+ 7
24	408.33	58.38		843.43	1189.75	366.79	125.88	318.43	+ 4	+10
25	-408.10	+58.57		+843.62	-1189.52	-366.60	+126.22	-318.26	<b>— 2</b>	+10
26	407.87	58.76		843.81	1189.29	366.41	126.56	318.09	<b>–</b> 6	+ 9
27	407.64	58.96		844.01	1189.06	366.21	126.89	317.91	-10	+ 5
28	407.41	59.16	ALICOCTUACION DO	844.21	1188.83	366.01	127.22	317.73	-11	0
29	407.19	59.37	209.20	844.42	1188.61	365.80	127.54	317.55	-10	<b>—</b> 5
30	-406.98	+59.58	-208.99	+844.63	-1188.40	-365.59	+127.86	-317.36	<b>—</b> 7	- 9
Mai 1	406.77	59.79		844.84	1188.19	365.37	128.18	317.17	<b>–</b> 3	-10
2	406.57	60.01		845.06	1187.98	365.15	128.50	316.97	0	-10
3	406.37	60.23	208.38	845.28	1187.78	364.93	128.81	316.77	+ 4	- 7
4	406.18	60.46	208.18	845.51	1187.59	364.70	129.12	316.56	+ 6	<b>-</b> 4
5	-405.99	+60.69	-207.99	+845,74	-1187.40	-364.47	+129.42	-316.35	+ 6	0
6	405.80	60.92		845.97	1187.21	364.24	129.72	316.14	+ 6	+ 4
7	405.61	61.16		846.21	1187.03	364.00	130.02	315.93	+ 4	+ 7
8	405.44	61.40		846.45	1186.85	363.76	130.32	315.71	+ 1	+ 9
9	405.26	61.64	The State of the S	846.69	1186.68	.363.52	130.61	315.49	<b>—</b> 2	+ 9
10	-405.10	+61.89	-207.11	+846.94	—1186.51	-363.27	+130.89	-315.26	- 4	+ 8
II	404.94	62.14		847.19	1186.35	363.02	131.18	315.03	- 6	+ 5
12	404.78	62.40		84715	1186.19	362.76	131.45	314.79	<b>-</b> 6	+ 1
13	404.63	62.65	MINISTER AND ADDRESS OF THE PARTY OF THE PAR	847.70	1186.04	362.51	131.73	314.55	<b>–</b> 5	- 3
14	404.49	62,92		847.97	1185.89	362.24	132.00	314.31	<b>-</b> 3	- 7
15	-404.35	+63.18		+848.23	-1185.75	<b>-</b> 361.98	+132.26	-314.06	a.	<b>-</b> 9
16	404.35	63.45		848.49	1185.61	361.72	132.53	313.81	+ 5	<b>—</b> 10
17	404.21	63.71		848.76	1185.48	361.45	132.79	313.57	+ 8	<b>-</b> 8
18	403.95	63.99	STATE OF THE PARTY	849.03	1185.35	361.18	133.04	313.31	+11	- 4
19	403.83	64.26		849.31	1185.23	360.90	133.29	313.06	+11	0
			5 (52) 3 365		The state of the s					
20	-403.72	+64.54		+849.58	-1185.12	-360.63	+133.54	-312.80	+10	+ 5
21	403.61	64.82		849.86	1185.01	360.35	133.78	312.54	+ 6	+ 9
22	403.50	65.10		850.14		360.07	134.01	312.27	0	+11
23	403.41 403.32	65.38 65.67		850.42 850.71	1184.81	359.79 359.50	134.24	312.00	— 5 — 0	+10
		TO THE REAL PROPERTY.					0.50 - 9.100	311.73	<b>-</b> 9	
25	-403.23		-205.24	+851.00	-1184.63	-359.21	+134.69	-311.45	-11	+ 2
26	403.15	66.25	100000000000000000000000000000000000000	851.29	1184.55	358.92	134.91	311.18	-11	- 3
27	-403.07	+66.54	-205.08	+851.57	-1184.47	<u>-358.64</u>	+135.12	-310.90	- 9	- 7
	"	"	"		"	n	,	"		
Mittl.Ort	-420.02	+78.25	-222.02	+863.28	-1201.47	-346.91	+114.75			

<sup>\*)</sup> Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

	DD.		T) D	0.0	TITO 1.6			err ar		
Tag	BD +	30000	BD -	STATE OF THE STATE OF	BD + 8		CHARLETTER	–89° 38	Kurzp	
	Gr. 10	°™56	Gr.	9 <u>m</u> 06 -	Gr. 10	°,06	Gr.	9 <b></b> 5	glied	
- 1947	æ	y	x	y	x	y	$\boldsymbol{x}$	y	in $x$	in y
Mai 27	-403.0 <i>7</i>	+66.54	-205.08	+851.57	-1184.47	-358.64	+135.12-	-310.90	- 9	- 7
28	403.00	66.83	205.01	851.87	1184.40	358.34	135.33	. 310.62	- 6	-10
29	402.94	67.12		852,16	1184.33	358.05	135.53	310.33	<b>— 1</b>	-10
30	402.88	67.42		852.45	1184.27	357.76	135.72	310.05	+ 2	- 9
31	402.82	67.71	204.84	852.75	1.184.22	357.46	135.92	309.76	+ 5	<b>—</b> 5
Juni 1	-402.78	+68.01	-204.79	+853.05	-1184.17	-357.16	+136.10	-309.47	+ 6	- I
2	402.73	68.31	204.75	853.34	1184.13	356.87	136.28	309.18	+ 6	+ 3
3	402.70	68.62	204.72	853.65	1184.09	356.56	136.46	308.88	+ 4	+ 6
4	402.67	68.92		853.95	1184.06	356.26	136.63	308.58	+ 2	+ 8
5	402.65	69.22	204.67	854.25	1184.03	355.96	136.80	308.28	— I	+ 9
6	-402.63	+69.52	-204.65	+854.55	-1184.01	-355.66	+136.96	-307.98	<b>—</b> 3	+ 8
7	402.61	69.82	Committee of the Commit	854.85	1184.00	355.36	137.12	307.68	<b>—</b> 5	+ 6
8	402.61	70.12	204.63	855.16	1183.99	355.06	137.27	307.38	<b>–</b> 6	+ 3
-9	402.61	70.43	204.63	855.46	1183.99	354.75	137.42	307.07	<b>–</b> 6	<del></del> 1
10	402.61	70.73	204.63	855.77	1184.00	354.45	137.56	306.77	- 4	<b>—</b> 5
11	-402.62	+71.04	-204.64	+856.07	-1184.01	-354.14	+137.69	-306.46	— ī	<b>—</b> 8
12	402.64	71.34	204.66	856.38	1184.02	353.84	.137.82	306.15	+ 3	10
13	402.66	71.65		856.69	1184.04	353-53	137.94	305.83	+ 7	<b>—</b> 9
14	402.69	71.96	204.71	857.00	1184.07	353.22	138.06	305.52	+11	<b>-</b> 6
15	402.72	72.26	204.74	857.31	1184.10	352.92	138.17	305.21	+12	2
16	-402.76	+72:56	-204.78	+857.61	-1184.14	-352.61	+138.28	-304.89	+12	+ 3
17	402.81	72.86	204.83	857.92	1184.19	352.31	138.39	304.58	+ 8	+ 8
18	402.86	73.17	204.88	858.22	1184.24	352.00.	138.48	304.27	+ 4	+11
19	402.91	73.47	204.94	858.53	1184.29	351.70	138.57	303.95	- 2	+11
20	402.97	73.78	205.00	858.83	1184.35	351.39	138.66	303.63	- 7	+ 8
21	-403.04	+74.08	-205.07	+859.14	-1184.42	-351.09	+138.74	-303.31	-11	+ 4
22	403.11	74.39		859.44	1184.49	350.78	138.81	302.99	—I 2	— I
23	403.19	74.70		859.75	-1184.57	350.48	138.88	302.67	-11	- 6
24	403.28	75.01	205.31	860.05	1184.66	350.17	138.94	302.35	- 7	-10
25	403.37	75.31	205.40	7860.35	1184.75	349.87	139.00	302.03	<b>—</b> 3	-11
26	-403.46	+75.62	-205.49	+860.66	-1184.84	-349.56	+139.05	-301.70	+ 1	-10
27	403.56	75.92	Control of the Contro	860.96	1184.94	349.26	139.09	301.38	+ 4	- 7
28	403.67	76.22						301.06	+ 5	- 3
29,	403.78	76.51		861.55		348.67		300.74	+ 6	+ 2
30	403.90	76.81		861.85	1185.27	348.37	139.20,	300.42	+ 4	+ 5
Juli 1	-404.02	+77.10	-206.06	+862.14	-1185.40	-348.08	+139.22	-300.10	+ 2	+ 8
2	404.15	77.39	7.50 10 20 20	862.43	1-185.52	347.79	139.24	299.78	0	+ 9
3	-404.29		-206.33	+862.72	-1185.66		+139.25	-299.46	- 3	+ 8
X 17 50		S. S. J. S. N.	0000000	100000						2
Mittl.Ort	-420.02	+78.25	-222.02	+863.28	—I20I.47	-346.91	+114.75	-307.15		
STATE OF THE STATE OF	ATT - 5 TO - 5 TO - 5 TO - 5 TO - 5 TO - 5 TO - 5 TO - 5 TO - 5 TO - 5 TO - 5 TO - 5 TO - 5 TO - 5 TO - 5 TO -	THE RESERVE	SCOOL STORY	STATE OF THE STATE OF	13000 C C C C C C C C C C C C C C C C C C		828 S S S S S S S S S S S S S S S S S S		0.00	

<sup>\*)</sup> Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1947

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Koord	ınater	ı der	schein	baren	Orter 1	ur 12 <sup>n</sup>	Sternz	ert Gr	eenw	710h
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1947	x	<u>y</u>	$\boldsymbol{x}$	y	$\boldsymbol{x}$	y	x	y		
4       404.43       77.97       206.47       863.01       1185.94       347.21       139.25       299.15       -5       + 7         5       404.77       78.56       206.62       863.30       1185.94       346.92       139.25       298.81       -6       -6       -0         7       404.87       78.83       206.92       863.87       1186.24       346.35       139.25       298.51       -6       -0         9       405.19       79.40       207.25       864.43       1186.57       345.78       139.19       297.56       +1       -9         10       405.54       79.68       207.42       864.41       1186.91       345.22       139.13       297.24       +6       -10         11       405.54       79.96       207.59       865.27       1187.09       344.95       139.09       296.61       +12       -4         13       -405.91       +80.51       -207.96       +865.54       -1187.09       344.95       139.09       296.60       +13       +1       -4       -4       -10       -10       -8       -12       -405.91       -86.27       -1187.09       344.95       139.09       295.09       +11       -6<	Juli 2		+77 68	-206 22		_1181 66	-247 50				
5 404.57 78.26 206.62 863.30 1185.04 346.02 139.25 298.83 -6 + 4 6 404.72 78.55 206.77 863.59 1186.09 346.63 139.25 298.51 -6 6 0 7 404.87 78.83 206.92 863.87 1186.04 346.35 139.25 298.59 -5 -4 8 -405.03 +79.12 -207.08 +864.15 -1186.40 -346.06 +139.22 -297.87 -3 -7 9 405.19 79.40 207.25 864.43 1186.57 345.78 139.19 297.56 +1 -9 10 405.36 79.68 207.42 864.71 1186.57 345.78 139.19 297.56 +1 -9 11 405.54 79.96 207.59 864.99 1186.91 345.25 139.13 206.93 +10 -8 12 405.72 80.23 207.77 865.27 1187.09 344.95 139.09 296.61 +12 -4 13 -405.91 +80.51 -207.96 +865.54 -1187.27 -344.67 +139.04 -296.30 +13 +1 406.10 80.78 208.15 865.54 1187.65 344.13 138.93 295.68 +7 +10 406.29 81.05 208.34 866.08 1187.65 344.13 138.93 295.68 +7 +10 406.49 81.32 208.54 866.35 1187.85 343.86 138.87 295.37 +1 +11 7 406.70 81.58 208.57 866.61 1188.05 343.60 138.81 295.07 -4 +10 18 -406.91 +81.84 -208.96 +866.87 -1188.26 -343.34 +138.73 -294.76 -9 +6 19 407.12 82.10 209.17 867.33 1188.48 343.08 138.65 204.46 -11 +1 20 407.57 82.61 209.62 867.44 1188.92 342.57 294.16 -11 +1 20 407.57 82.61 209.62 867.40 1188.92 342.57 138.48 293.57 -5 -11 24 408.27 83.36 210.38 868.81 1189.86 341.58 138.80 293.97 -5 -11 24 408.27 83.36 210.38 868.88 1189.85 341.58 138.80 293.97 -5 -11 24 408.27 83.36 210.38 868.88 1190.87 342.31 138.38 293.57 -5 -11 24 408.27 83.36 210.38 868.88 1190.13 341.33 137.95 292.40 +5 0 409.52 84.55 211.58 869.58 1190.87 340.63 137.56 291.55 0 +9 31 410.65 85.00 212.11 870.03 1191.03 340.18 137.56 291.55 0 +9 31 410.65 85.00 212.11 870.03 1191.03 340.18 137.28 291.00 -5 +7 409.01 84.08 21.06 869.11 1190.35 341.10 137.82 292.11 +5 +4 411.45 86.07 213.15 870.03 1191.39 340.18 137.28 291.00 -5 +7 410.88 85.65 212.94 870.68 1192.25 339.31 136.65 289.94 -4 -6 6 411.74 86.28 213.80 871.31 1193.80 338.90 136.61 289.94 -4 -6 6 411.74 86.28 213.80 871.31 1193.87 338.91 135.95 288.92 111 -5 9 -412.03 +86.68 214.40 871.00 1193.97 -338.31 135.95 288.92 111 -5 9 -412.03 +86.68 214.40 871.00 1193.97 -338.31 135.95 288.92 111 -5 9 -412.03 +86.68 214.40 8								the state of the s		and the same of the same	100000
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13       -405.91       +80.51       -207.96       +865.54       -1187.27       -344.67       +139.04       -296.30       +13       + 1         14       406.10       80.78       208.15       865.81       1187.46       344.40       138.99       295.99       +11       + 6         15       406.29       81.05       208.34       866.08       1187.65       344.13       138.93       295.68       + 7       + 10         16       406.49       81.32       208.54       866.35       1187.85       343.86       138.87       295.37       + 1       + 11         17       406.70       81.58       208.75       866.61       1188.05       343.36       138.81       295.07       - 4       + 10         18       -406.91       +81.84       -208.96       +866.87       -1188.26       -343.34       + 138.73       -294.76       - 9       + 6         19       407.12       82.10       209.62       867.64       1188.92       342.82       138.57       294.16       -11       - 4         20       407.57       82.61       209.62       867.64       1188.92       342.81       138.48       293.86       - 8       8	The Control of the Control										Maria Carlo
14       406.10       80,78       208.15       865.81       1187.46       344.40       138.99       295.99       +11       + 6         15       406.29       81.05       208.34       866.08       1187.65       344.13       138.93       295.68       + 7       + 10         16       406.49       81.58       208.75       866.61       1188.65       343.86       138.81       295.37       + 1       + 11         17       406.70       81.58       208.75       866.61       1188.05       343.60       138.81       295.07       - 4       + 10         18       -406.91       +81.84       -208.96       +866.87       -1188.26       -343.34       + 138.73       -294.76       - 9       + 6         19       407.12       82.10       209.17       867.13       1188.48       343.08       138.65       294.46       -11       + 1         20       407.34       82.61       209.62       867.64       1188.92       342.87       138.48       293.86       - 8       - 8         21       407.57       82.61       209.62       867.64       1189.15       342.31       138.38       293.57       - 5       -11	12	405.72		The same of the same of		and the same		CO 16 80 34		The state of	
15       406.29       81.05       208.34       866.08       1187.65       344.13       138.93       295.68       + 7       +10         16       406.49       81.32       208.54       866.35       1187.85       343.86       138.87       295.37       + 1       +11         17       406.70       81.58       208.75       866.61       1188.05       343.60       138.81       295.07       - 4       +10         18       -406.91       +81.84       -208.96       +866.87       -1188.26       -343.34       +138.73       -294.76       - 9       + 6         19       407.12       82.01       209.17       867.13       1188.48       343.08       138.65       294.76       - 9       + 6         20       407.34       82.61       209.62       867.64       1188.92       342.82       138.57       294.16       -11       + 1         23       -408.03       +83.11       -210.08       +868.14       -1189.38       -342.07       +138.28       -293.27       - 1       -10         23       -408.03       +83.36       210.32       868.83       1189.62       341.82       138.17       292.88       3       8	13										
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18       -406.91       +81.84       -208.96       +866.87       -1188.26       -343.34       +138.73       -294.76       -9       +6         19       407.12       82.10       209.17       867.13       1188.48       343.08       138.65       294.46       -11       +1         20       407.34       82.36       209.39       867.39       1188.69       342.82       138.57       294.16       -11       -4         21       407.57       82.61       209.62       867.64       1188.92       342.57       138.48       293.86       -8       -8         22       407.80       82.87       209.85       867.90       1189.15       342.31       138.38       293.57       -5       -11         23       -408.03       +83.11       -210.08       +868.44       -1189.38       -342.07       +138.28       -293.27       -1       -10         24       408.27       83.36       210.32       868.39       1189.62       341.58       138.06       292.59       + 3       - 8         25       408.51       83.65       210.81       868.83       1190.11       341.33       137.95       292.40       + 5       0         2	THE RESERVE TO THE PARTY OF		and the second						The second second second		
19	17	406.70	81.58	208.75	866.61	1188.05	343,60	138.81	295.07	- 4	+10
19	18	-406.91	+81.84	-208.96	+866.87	-1188.26	-343.34	+138.73	-294.76	- 9	+ 6
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27   409.01   84.08   211.06   869.11   1190.35   341.10   137.82   292.11   + 5   + 4    28   -409.26   +84.32   -211.32   +869.35   -1190.61   -340.86   +137.70   -291.83   + 3   + 7    29   409.52   84.55   211.58   869.58   1190.87   340.63   137.56   291.55   0   + 9    30   409.78   84.78   211.84   869.81   1191.13   340.40   137.42   291.27   - 3   + 9    31   410.05   85.00   212.11   870.03   1191.39   340.18   137.28   291.00   - 5   + 7    Aug.   1   410.32   85.22   212.38   870.25   1191.67   339.96   137.13   290.73   - 6   + 5    2   -410.60   +85.44   -212.66   +870.47   -1191.94   -339.74   +136.97   -290.46   - 7   + 2    3   410.88   85.65   212.94   870.68   1192.22   339.53   136.81   290.20   - 6   - 2    4   -411.16   85.86   213.22   870.89   1192.50   339.32   136.65   289.94   - 4   - 6    5   411.45   86.07   213.51   871.10   1192.79   339.11   136.48   289.68   - 1   - 8    6   411.74   86.28   213.80   871.31   1193.08   338.90   136.31   289.42   + 3   - 9    7   -412.03   +86.48   -214.10   +871.51   -1193.37   -338.70   +136.13   -289.17   + 8   - 8    8   412.33   86.68   214.40   871.70   1193.67   338.51   135.95   288.92   +11   - 5    9   -412.63   +86.87   -214.70   +871.90   -1193.97   -338.31   +135.76   -288.68   +12   - 1	AL AUTOMOBILE TO THE PARTY OF T	Control of the Control of	CONTRACTOR OF STREET	Section became and the		the second second second					TO SERVICE AND ADDRESS.
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29   409.52   84.55   211.58   869.58   1190.87   340.63   137.56   291.55   0   + 9   30   409.78   84.78   211.84   869.81   1191.13   340.40   137.42   291.27   - 3   + 9   31   410.05   85.06   212.11   870.03   1191.39   340.18   137.28   291.00   - 5   + 7   410.32   85.22   212.38   870.25   1191.67   339.96   137.13   290.73   - 6   + 5   410.88   85.65   212.94   870.68   1192.22   339.53   136.81   290.20   - 6   - 2   4   -411.16   85.86   213.22   870.89   1192.50   339.32   136.65   289.94   - 4   - 6   5   411.45   86.07   213.51   871.10   1192.79   339.11   136.48   289.68   - 1   - 8   6   411.74   86.28   213.80   871.31   1193.08   338.90   136.31   289.42   + 3   - 9   -412.03   86.68   214.40   871.70   1193.67   338.51   135.95   288.92   + 11   - 5   9   -412.63   86.87   -214.70   871.90   -1193.97   -338.31   +135.76   -288.68   +12   - 1	Charles and the second				200000000000000000000000000000000000000		200 C	The second			ALC: NO
30		Color and the		Part of the last o						000000000000000000000000000000000000000	
31       410.05       85.00       212.11       870.03       1191.39       340.18       137.28       291.00       —5       +7         Aug.       1       410.32       85.22       212.38       870.25       1191.67       339.96       137.13       290.73       —6       +5         2       —410.60       +85.44       —212.66       +870.47       —1191.94       —339.74       +136.97       —290.46       —7       +2         3       410.88       85.65       212.94       870.68       1192.22       339.53       136.81       290.20       —6       —2         4       -411.16       85.86       213.22       870.89       1192.50       339.32       136.65       289.94       —4       —6         5       411.45       86.07       213.51       871.10       1192.79       339.11       136.48       289.68       —1       —8         6       411.74       86.28       213.80       871.31       1193.08       338.90       136.31       289.42       +3       —9         7       —412.03       +86.48       —214.10       +871.51       —1193.37       —338.70       —136.13       —289.17       +8       —8	The second second second						Control of the last of the las				
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2 -410.60 +85.44 -212.66 +870.47 -1191.94 -339.74 +136.97 -290.46 - 7 + 2 3 410.88 85.65 212.94 870.68 1192.22 339.53 136.81 290.20 - 6 - 2 4 -411.16 85.86 213.22 870.89 1192.50 339.32 136.65 289.94 - 4 - 6 5 411.45 86.07 213.51 871.10 1192.79 339.11 136.48 289.68 - 1 - 8 6 411.74 86.28 213.80 871.31 1193.08 338.90 136.31 289.42 + 3 - 9 7 -412.03 +86.48 -214.10 +871.51 -1193.37 -338.70 +136.13 -289.17 + 8 - 8 8 412.33 86.68 214.40 871.70 1193.67 338.51 135.95 288.92 +11 - 5 9 -412.63 +86.87 -214.70 +871.90 -1193.97 -338.31 +135.76 -288.68 +12 - 1		COLUMN TO SERVICE STATE OF THE PARTY OF THE	and the same of th		The late of the la				CONTRACTOR OF THE PARTY OF THE	The state of the state of	
3       410.88       85.65       212.94       870.68       1192.22       339.53       136.81       290.20       6       2         4       -411.16       85.86       213.22       870.89       1192.50       339.32       136.65       289.94       4       6         5       411.45       86.07       213.51       871.10       1192.79       339.11       136.48       289.68       1       8         6       411.74       86.28       213.80       871.31       1193.08       338.90       136.31       289.42       +- 3       9         7       -412.03       +86.48       -214.10       +871.51       -1193.37       -338.70       +136.13       -289.17       +- 8       8         8       412.33       86.68       214.40       871.70       1193.67       338.51       135.95       288.92       +11       5         9       -412.63       +86.87       -214.70       +871.90       -1193.97       -338.31       +135.76       -288.68       +12       1	ring. 1	400 Z 200	34 - 34			( S ) ( S ) ( S )	339.90			_ 0	
4       -411.16       85.86       213.22       870.89       1192.50       339.32       136.65       289.94       -4       -6         5       411.45       86.07       213.51       871.10       1192.79       339.11       136.48       289.68       -1       -8         6       411.74       86.28       213.80       871.31       1193.08       338.90       136.31       289.42       +3       -9         7       -412.03       +86.48       -214.10       +871.51       -1193.37       -338.70       +136.13       -289.17       +8       -8         8       412.33       86.68       214.40       871.70       1193.67       338.51       135.95       288.92       +11       -5         9       -412.63       +86.87       -214.70       +871.90       -1193.97       -338.31       +135.76       -288.68       +12       -1	the second second second					-1191.94	-339.74		STORY THE REAL PROPERTY.	THE RESERVE OF THE PERSON NAMED IN	+ 2
5       411.45       86.07       213.51       871.10       1192.79       339.11       136.48       289.68       — 1       — 8         6       411.74       86.28       213.80       871.31       1193.08       338.90       136.31       289.42       + 3       — 9         7       —412.03       +86.48       —214.10       +871.51       —1193.37       —338.70       +136.13       —289.17       + 8       — 8         8       412.33       86.68       214.40       871.70       1193.67       338.51       135.95       288.92       +11       — 5         9       —412.63       +86.87       —214.70       +871.90       —1193.97       —338.31       +135.76       —288.68       +12       — 1	3	410.88	85.65	212.94	870.68	1192.22	339.53	136.81	290.20	, — 6	- 2
6 411.74 86.28 213.80 871.31 1193.08 338.90 136.31 289.42 + 3 - 9 7 -412.03 +86.48 -214.10 +871.51 -1193.37 -338.70 +136.13 -289.17 + 8 - 8 8 412.33 86.68 214.40 871.70 1193.67 338.51 135.95 288.92 +11 - 5 9 -412.63 +86.87 -214.70 +871.90 -1193.97 -338.31 +135.76 -288.68 +12 - 1						THE RESERVE OF THE PARTY OF THE	CONTRACTOR AND ADDRESS OF THE PARTY OF THE P			Water Street	
7 -412.03 +86.48 -214.10 +871.51 -1193.37 -338.70 +136.13 -289.17 + 8 - 8 8 412.33 86.68 214.40 871.70 1193.67 338.51 135.95 288.92 +11 -5 9 -412.63 +86.87 -214.70 +871.90 -1193.97 -338.31 +135.76 -288.68 +12 - 1											
8     412.33     86.68     214.40     871.70     1193.67     338.51     135.95     288.92     +11     - 5       9     -412.63     +86.87     -214.70     +871.90     -1193.97     -338.31     +135.76     -288.68     +12     - 1	6	411.74	86.28	213.80	871.31	1193.08	338.90	136.31	289.42	+ 3	- 9
8     412.33     86.68     214.40     871.70     1193.67     338.51     135.95     288.92     +11     - 5       9     -412.63     +86.87     -214.70     +871.90     -1193.97     -338.31     +135.76     -288.68     +12     - 1	7	-412.03	+86.48	-214.10	+871.51	-1193.37	-338.70	+136.13	-289.17	+ 8	- 8
9 -412.63 +86.87 -214.70 +871.90 -1193.97 -338.31 +135.76 -288.68 +12 -1				THE RESERVE OF THE PARTY OF THE							
	9					THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAME			-288.68		
Mittl.Ort -420.02 +78.25 -222.02 +863.28 -1201.47 -346.91 +114.75 -307.15	W 1885		E ( 288)	E16:430		Basson !!	Contract Contract			73	
	Mittl.Ort	-420.02	+78.25	-222.02	+863,28	-1201.47	-346.91	+114.75	-307.15		

<sup>\*)</sup> Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

	BD +	89° 1	BD +89° 3 Gr. 9 <sup>m</sup> 06		BD +	89° 37	CPD	−89° 38	Kurzp	period.
Tag	Gr. 10	o <u>m</u> 56	Gr.	9 <b>m</b> 06	Gr. 1	o <u>m</u> 06	Gr.	9 <b>m</b> 5	Nuta glie	tions- der*)
1947	x	y	$\boldsymbol{x}$	y	' <b>x</b>	y	x	y	in x Einh	in y
Aug. 9	-412.63	+86.87	-214.70	+871.90	-1193.97	-338.31	+135.76	-288.68	+12	- I
10	412.94	87.06			1194.28	338.13	135.57	288.44	+12	+ 4
11	413.24	87.24		872.27	1194.58	337.94	- 135.37	288.21	+ 9	+ 8
12	413.56	87.42		872.45	1194.90	337.76	135.17	287.98	+ 4	+11
13	413.87	87.60	215.94	872.62	1195.21	337.59	134.96	287.75	— I	+11
14	-414.19	+87.78	-216.26	+872.80	-1195.53	-337.41	+134.75	-287.53	- 6	+ 8
15	414.51	87.95	216.58	872.97	1195.84	337.24	134.54	287.31	-10	+ 4
16	414.83	88.12	216.90	873.14	1.196.17	337.07	134.32	287.09	-11	- 2
17	415.16	88.28		873.30	1196.49	336.91	134.10	286.88	<b>-</b> 9	- 7
18	415.49	88.44	217.56	873.46	1196.82	336.75	133.88	286.67	- 6	-10
19	-415.82	+88.59	-217.89	+873.61	-1197.15	-336.60	+133.65	-286.47	- 2	11
20	416.16	88.74		873.76	1197.49	336.45	133.42	286.27	+, 2	-/9
21	416.50	88.89	218.57	873.91	1197.83	336.30	133.18	286.08	+ 4	- 6
22	416.84	89.03	218.91	874.05	1198.17	336,16	132.94	285.89	+ 6	<b>—</b> 2
23	417.19	89.17	219.26	874.19	1198.52	336.02	132.69	285.70	+ 5	+ 3
24	-417.53	+89.31	-219.60	+874.33	-1198.86	-335.89	+132.44	-285.52	+ 3	+ 6
25	417.88	89.44		874.46	1199.21	335.76	132.19	285.34	+ 1	+9
26	418.23	89.57		874.59	1199.56	335.63	131.94	285.17	- 2	+ 9
27	418.59	89.69		874.71	1199.92	335.51	131.68	285.01	<b>—</b> 5	+ 8
28	418.94	89.81	221.01	874.83	1200.27	335.39	131.42	284.85	<b>—</b> 7	+ 6
29	-419.30	+89.92	-221.37	+874.94	-1200.63	-335.28	+131.15	-284.69	<b>-</b> 7	+ 3
30	419.66	90.03	The second secon	875.05	1200.99	335.17	130.89	284.54	- 7	- I
31	420.02	90.13	222.09	875.15	1201.35	335.07	130,61	284.40	<b>-</b> 5	<b>—</b> 5
Sept. 1	420.39	90.23	222.46	875.25	1201.72	334.97	130.34	284.26	<b>— 2</b>	- 8
2	420.76	90.32	222.83	. 875.34	1202.09	334.87	130.06	284.12	+ 2	<b>-</b> 9
3	-421.13	+90.41	-223.20	+875.43	-1202.46	-334.78	+129.78	-283.99	+ 6	- 9
4	421.49	90.50		875.52	1202.82	334.69	129.51	283.87	+ 9	- 6
5	421.87	90.58	223.94	875.60	1203.20	334.61	129.22	283.75	+11	<b>—</b> 3
6	422.24	90.66	224.31	875.68	1203.57	334.53	128.94	283.64	+12	+ 2
7	422.61	90.73	224.69	875.75	1203.94	334.46	128.65	283.53	+10	+ .7
8	-422.99	+90.80	-225.06	+875.82	-1204.32	-334.39	+128.36	-283.43	+ 6	+10
9	423.37	90.86	The Park of the Land of the La	875.88	1204.70	334.33	128.07	283.34	+ 1	+11
ìo	423.74	90.92	CONTRACTOR OF THE PARTY OF THE	875.94		334.27	127.78	283.25	- 4	+ 9
11	424.13	90.97		875.99	1205.46	334.22	127.48	283.17	<b>—</b> 8	+ 6
12	424.51	91.02	226.59	876.04	1205.84	334.17	127.18	283.09	-ro	0
13	-424.89	+91.07	-226.97	+876.09	-1206.22	-334.12	+126.88	-283.02	-10	<b>-</b> 5
14	425.28	91.11	227.36	876.13	1206.60	334.08	126.58	282.95	- 7	- 9
15	-425.66	+91.15	and the second s		-1206.99	-334.05	+126.28	-282.89	- 3	-11
		1		1,950,000	200	WAY SEL			139	
Mittl.Ort	-420.02	+78.25	-222,02	+863.28	-1201.47	-346.91	+114.75	-307.15		

<sup>\*)</sup> Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1947

Looru	maten	uel	зспети	раген	OT UCT T	ui iz	BUEIHZ	010 01	0 0 11 11	
	BD +8	89° 1	BD -	+89° 3	BD +89° 37 Gr. 10 <sup>m</sup> 06		CPD -	-89° 38	Kurzpe	eriod.
Tag	Gr. 10			9™06			5-7-10 (March 1996)	9 <sup>m</sup> 5	Nutat glied	tions-
						39,22		9.3	gnea	er ,
1947	x	y	$\boldsymbol{x}$	y	x	y	x	y		in y
		"	71	"		,,	,,	"	Einh.	0"01
Sept. 15	-425.66	+91.15	-227.74	+876.17	-1206.99	-334.05	+126.28	-282.89	- 3	-r1
16	426.04	91.18		876.20	1207.37	334.02		282.84	+ 1	-10
17	426.43	91.20		876.22	1207.76	333.99	125.67	282.79	+ 4	- 8
18	426.82	91.23	The second secon	876.25	1208.14	333.97	125.37	282.75	+ 6	- 4
19	427.21	91.24		876.26	1208.53	333.96	125.06	282.71	+ 6	+ I
20	-427.60	+91.25		+876.27	-1208.92	-333.95	+124.76	-282,68	+ 5	+ 5
.21	427.99	91.26	230.07	876.28	1209.31	333.94	124.45	282.66	+ 2	+ 8
22	428.38	91.26		876.28	1209.70	333.94	124.14	The second second	— I	+ 9
23	428.77	91.26		876.28	1210.09	333.94		282.62	4	+ 9
24	429.16	91.25	231.24	876.27	1210.48	333.95	123.53	282.62	<b>–</b> 6	+ 7
25	-429.55	+91.24	-231.62	+876.26	-1210.87	-333.96	+123.22	-282.61	- 7	+ 4
26	429.94	91.23		876.25	1211.26	333.98	122.92	282.62	- 7	o
27	430.33	91.20	AND THE PARTY OF T	876.22	1211.65	334.00	122,61	282.63	<b>–</b> 6	- 4
28	430.72	91.18	232.79	876.20	1212.04	334.03	122.30	282.65	- 4	- 7
29	431.11	91.15	The second secon	876.17	1212.43	334.06	121.99	282.67	0	<b>-</b> 9
. 30	-431.50	+91.11	-233.58	+876.13	-1212.82	-334.10	+121.69	-282.71	+ 4	- 9
Okt. 1	431.89	91.07		876.09	1213.21	334.14	121.38	282.74		- 8
2	432.28	91.02		876.04	1213.60	334.19	121.07	282.79		- 4
3	432.67	90.97		875.99	1213.99	334.24	120.76	282.84	+11	0
4	433.06	90.91	THE RESERVE THE PROPERTY.	875.93	. 1214.38	3:34.30	120.46	282.89	+10	+ 5
5	-433.45	+90.85	-235.54	+875.87	-1214.77	-334.36	+120.16	-282.96	+ 7	+ 9
- 6	433.83	90.79		875.81	1215.15	334.42	119.86	283.02	+ 2	+11
7	434.22	90.72		875.74	1215.54		- Charles 200 100	283.10	<b>-</b> 3	+10
8	434.60	90.64	The second second second	875.66	1215.92	334.57	119.26	283.18	- 7	+ 7
9	434.99	90.56	CONTRACTOR OF THE PARTY OF THE	875.58	1216.31	334.65	118.96		<b>-</b> 9	+ 2
10	-435.37	+90.48	-237.46	+875.50	-1216.69	-334.73	+118 67	-283.35	-10	- 3
11	435.75	90.39			1217.07	334.82	118.38		- 8	- 7
12	436.13	90.29	the second secon	875.31	1217.45		118.09	283.55	<b>—</b> 5	-10
13	436.51	90.19	100000000000000000000000000000000000000		1217.83	335.02	117.80			-11
14	436.89	90.09		875.11	1218,21	335.12	117.51	283.77	+ 3	- 9
15	-437.26	+89.98			-1218.58	-335.23	+117.23	-283.89	+ 6	- 5
16	437.64			874.89	1218.96	335.23		284.02	+ 6	- I
17	438.01	89.75		874.77					+ 6	+ 4
18	438.38	89.63		874.65	1219.70	335.58	116.39	284.28	+ 4	+ 7
19	438.75	89.50		874.52	1220.07	335.71	116.12	284.43	+ 1	+ 9
20	-439.11	+89.36		300 100 120	-1220.43	-335.85		-284.57	_ 2	+ 9
21	439.48	89.22		874.24	1220.43	335.05	115.58	284.73	$-2 \\ -5$	+ 8
22	<del>-439.46</del> <del>-439.84</del>	THE RESERVE TO SERVE THE PARTY OF THE PARTY	-24I.94		-1221.16			-284.89	-5	+ 5
-	100			5		333	1 - 3-3		1	
Mittl.Ort	1100.000	1 79 07	"	11060.00	"	"	"	"		
MIIOH.OIO	-420.02	1+70.25	-222.02	+863.28	-1201.47	-346.91	+114.75	-307.15	150000	

<sup>\*)</sup> Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Tag	BD + Gr. 10		155 AND 156 AND 15	+89° 3	BD +	The same of	CPD Gr.	-89° 38	Kurzp Nuta	tions-
1947	x	<i>y</i>	x	y	x	<i>y</i>	- x	y	THE RESERVE TO SERVE THE PARTY OF THE PARTY	in y
Okt. 22	-439.84	+89.08	-241.94	+874.10	-1221.16	-336.13	+115.31	-284.89	- 7	+ 5
23	440.20	88.93	. 242.30	873.96	1221.52	336.28	115.05	285.06	<b>—</b> 8	+ 2
24	440.56	88.78	242.66	873.81	1221.88	336.43	114.79	285.23	- 7	- 2
25	440.92	88.63		873.65	1222.24	336.58	114.53	285.40	<b>—</b> 5	- 6
26	441.27	88.47	243.37	873.49	1222.59	336.74	114.28	285.58	- I	- 8
27	-441.62	+88.30	-243.72	+873.33	-1222.94	-336.91	+114.03	-285.77	+ 3	<b>-</b> 9
28	441.97	88.13		873.16	1223.29	337.08	113.79	285.96	+ 7	- 9
29	442.31	87.96	Company of the Compan	872.98	1223.63	337.26	113.55	286.16	+10	-6
30	442.65	87.78		872.80	1223.97	337.44	113.32	286.36	+11	2
31	442.99	87.59	245.09	872.62	1224.31	337.63	113.09	286.57	+11	+ 3
Nov. 1	-443.33	+87.40	-245.43	+872.43	-1224.65	-337.82	+112.86	-286.78	+ 8	+ 8
2	443.66	87.21		872.24	1224.98	338.01	112.63	287.00	+ 4	+11
3	444.00	87.01		872.04	1225.32	338.21	112.41	287.22	- I	+11
4	444.32	86.81		871.84	1225.64	338.41	112.20	287.44	<b>–</b> 6	+ 9
5	444.65	86,61		871.64	1225.97	338.62	111.99	287.67	- 9	+ 4
6	-444.97	+86.40	-247.07	+871.43	-1226.29	-338.83	+111.78	-287.91	-10	- I
7	445.29	86.19	The second secon	871.22	1226.29	339.04	111.58	288.14	. — 9	<del>- 6</del>
8	445.60	85.97		871.00	1226.92	339.04	111.39	288.39	<b>-</b> 6	- 9
9	445.91	85.75	DE ADVONON BOADURON	870.78	1227.23	339.48	111.39	288.63	- 2	-11
10	446.22	85.52		870.55	1227.54	339.71	111.01	288.88	+ 2	-10
		15 1 10 414	A SHOW		100000000000000000000000000000000000000					
11	-446.52	+85.29		+870.32	-1227.84	-339.94	+110.83	-289.14	+ 5 + 6	- 7 - 3
12	446.82	85.06	Control of the Contro	870.09 869.85	1228.14	340.17	110.65	289.40 289.66	+ 6	- 3 + 2
13	447.11	84.82		869.61	1228.43	340.41 340.65	110.48	289.00	+ 5	+ 6
14	447.41 447.69	84.58		869.37	1220./3	340.05	110.32	290,20	+ 2	+ 8
15		84.33		923 Miles 5/29			200 190 3		3014	
16	-447.97	+84.08		+869.12	-1229.29	-341.15	+110.01	-290.47	- I	+ 9
17	448.25	83.83	250.36	868.87	1229.57	341.40	109.86	290.75	- 4	+ 9
18	448.53	83.57	250.63	868.61	1229.85	341.66	109.72	291.03	<b>–</b> 6	+ 7
19	448.79	83.31		868.35	1230.11	341.92	109.58	291.31	- 7	+ 3
20	449.06	83.04	251.17	868.08	1230.38	342.19	109.45	291.60	- 7	— I
21	-449.32	+82.77	-251.43	+867.81	-1230.64	-342.46	+109.33	-291.89	- 6	<b>—</b> 5
22	449.57	82.50	251.69	867.54	1230.90	342.73	109.21	292.18	- 3	<b>- 8</b>
23	449.82	82.23	251.94	867.27	1231.15	343.01	109.09	292.47	+ 1	-10
24	450.07	81.95		866.99	1231.39	343.28	108.98	292.77	+ 6	- 9
25	450.31	81.67	252.42	866.71	1231.63	343.57	108.88	293.07	+ 9	<b>-</b> 7
26	-450.54	+81.38	-252.66	+866.42	-1231.87	-343.85	+108.79	-293.37	+12	<u> </u>
27	450.77	81.10		866.14	1232,10	344.14	108.70	293.68	+12	+ I.
28	-451.00	CONTRACTOR AND ADDRESS.	-253.11	+865.84	-1232.32	-344.43	+108.62	-293.98	+10	+ 6
Mittl.Ort	,,,,,,				-1201.47	"	+114.75	-30Z.15		

<sup>\*)</sup> Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1947

AL O O I C	11110001	I UI	BOHOIL	Daron	01001	1 4 1 12	Decin	3 C T U C T	CONV	1101
Tag	BD +	1000		+89° 3	BD + Gř. 1	The state of		-89° 38	Nuta	
	Gr. 10	0#56	Gr.	9 <sup>m</sup> 06	Gr. I	O <del>"</del> OO	Gr.	9 m 5	glied	ler*)
1947	x	y	$\cdot x$	y	x	y	x	y	in x Einh	in y
Nov. 28	-451.00	+80.80	-253.11	+865.84	-1232.32	-344.43	+108.62	-293.98	+10	+ 6
29	451.22	80.51		865.55	1232.54	344.73	108.54	294.29	+ 6	+10
30	451.43	80.21		865.25	1232.76	345.03	108.47	294.60	+ 1	+11
Dez. 1	451.64	The second second		864.95	1232.97	345.33	108.41	294.92	- 4	+10
2	451.85	79.61		864.65	1233.17	345.63	108.35	295.23	- 9	+ 6
									12	100
3	-452.05	+79.30	-254.17	+864.35	-1233.37.	-345.94	+108.30	-295.55	-11	+ 1
4	452.24	79.00	254.36	864.04	1233.57	346.25	108.25	295.86	-11	- 4
5	452.43	78.69	254.55	863.73	1233.75	346.56	108.21	296.18	<b>—</b> 8	<b>— 8</b>
6	452.61	78.37	The second secon	863.42	1233.93	346.87	108.18	296.50	- 4	-1 I
7	452.78	78.06	254.90	863.10	1234.11	347.19	108.16	296.82	0	-10
									9	
8	-452.95	+77.74		+862.79	-1234.28	-347.51	+108.14	-297.15	+ 3	<b>—</b> 8
9	453.12	77.42		862.47	1234.44	347.83	108.12	297.47	+ 6	- 4
10	453.28	77.10		862.15	1234.60	348.15	108.12	297.80	+ 6	0
11	453.43	76.77		861.82	1234.75	348.48	108.12	298.13	+ 5	+ 4
12	453.58	76.45	255.70	861.50	1234.90	348.81	108.13	298.46	+ 3	+,7
		1-6		106			1 0	0 -0	- 17.4	
13	-453.72	+76.12	Contract of the Contract of th	+861.17	-1235.04	-349.13	+108.14	-298.78	0	+9
14	453.86	75.79		860.84	1235.18	349.46	108.16	299.11	$-3 \\ -6$	+ 9 + 7
15	453.99	75.46	The second secon	860.51 860.18	1235.31	349.79	108.18	299.44	-6 $-7$	+ 5
17	454.11 454.22	75.13 74.79		859.85	1235.43	350.13 350.46	108.26	300.09	- 7	+ 1
	454.22	74.79	250.34	039.03	1235.54	350.40	100,20	300.09		
18	-454.33	+74.46	-256.45	+859.52	-1235.65	-350.80	+108.30	-300.42	- 6	<b>-</b> 3
19	454.44	74.12	The second secon	859.18	1235.76	351.14	108.35	300.75	- 4	- 7
20	454.53	7.3.78	The second second	858.84	1235.85	351.48	108.41	301.08	o	- 9
21	454.62	73.44	256.74	858.50	1235.94	351.82	108.48	301.41	+ 4	-10
22	454.71	73.10		858.16	1236.03	352.16	108.55	301.74	+ 8	<b>—</b> 8
			S. State Sta							
23	-454.78	+72.76	-256,90	+857.83	-1236.10	-352.50	+108.63	-302.06	+11	- 5
24	454.86	72.42	256.98	857.49	1236.18	352.84	108.71	302.39	+13	- I
25	454.92	72.08	257.04	857.15	1236.24	353.18	108,80	302.71	+12	+ 4
26	454.98	71.74	257.10	856.81	1236.30	353.53	108.90	303.03	+ 9	+ 9
27	455.03	71.40	257.15	856.47	1236.35	353.87	109.00	303.36	+ 4	+11
- 0	4 7 7 0 0	1 06		10-6				60		/
28	-455.08	+71.06	Company of the Company	+856.12	-1236.40	-354.21	+109.11	<b>—303.68</b>	<b>- 2</b>	+11
29	455.11	70.71	257.23	855.78	1236.43	354.55	109.23	303.99	- 7 - 10	+ 4
30	455.15	70.37 70.03	257.27 257.29	855.44 855.09	1236.49	354.90 355.24	109.35	304.31 304.63	-11 -10	T 4
31	455.17	+69.69		+854.75	-1236.49 $-1236.51$	-355.24 $-355.58$	+109.61	-304.03 -304.95	-10	- z - 7
- 32	<del>-455.19</del>	1 09.09	23/.31	34./5	1230.51	333.30	109.01	304.93	SE P	1.25
Mittl.Ort	-420.02	+78.25		+863.28	-1201.47	-346.91	+114.75	—307.15		

<sup>\*)</sup> Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

#### zur Reduktion auf den scheinbaren Ort

$$A = t - (0.34213 + 0.00034 T) \sin \beta + 0.00415 \sin 2 \beta - 0.02525 \sin 2 L_{\odot} + 0.00250 \sin M_{\odot} - 0.00099 \sin (2 L_{\odot} + M_{\odot}) + 0.00042 \sin (2 L_{\odot} - M_{\odot}) + 0.00024 \sin (2 L_{\odot} - \beta) + 0.00010 \sin (2 L_{\odot} - 2 M_{\odot} - \beta) + 0.00008 \sin (2 L_{\odot} - 2 L_{\odot} + 2 M_{\odot}) + 0.00065 \sin 2 L_{\odot} + 0.00135 \sin M_{\odot} - 0.00067 \sin (2 L_{\odot} - \beta) + 0.00052 \sin (2 L_{\odot} + M_{\odot}) + 0.00012 \sin (2 L_{\odot} - 2 L_{\odot}) + 0.00012 \sin (2 L_{\odot} + M_{\odot}) + 0.00012 \sin (2 L_{\odot} - 2 L_{\odot}) + 0.00012 \sin (M_{\odot} + \beta) + 0.00012 \sin (M_{\odot} + \beta) + 0.00012 \sin (M_{\odot} - \beta) + 0.00012 \sin (2 L_{\odot} + M_{\odot} - \beta)$$

$$B = -(9.210 + 0.001 T) \cos \beta + 0.00012 \sin (2 L_{\odot} + M_{\odot} - \beta)$$

$$B = -(9.210 + 0.001 T) \cos \beta + 0.0000 \cos 2 \beta - 0.0551 \cos 2 L_{\odot} - 0.0002 \cos (2 L_{\odot} + M_{\odot}) + 0.00012 \cos (2 L_{\odot} - M_{\odot}) + 0.00012 \cos (2 L_{\odot} - \beta) + 0.00012 \cos (2 L_{\odot} + M_{\odot}) + 0.00012 \cos (2 L_{\odot} - \beta) + 0.00012 \cos (2 L_{\odot} - \beta) + 0.00012 \cos (2 L_{\odot} + M_{\odot}) + 0.00012 \sin (2 L_{\odot} + M_{\odot}) + 0.00012 \sin (2 L_{\odot} + M_{\odot}) + 0.00012 \sin (2 L_{\odot} + M_{\odot}) + 0.00012 \sin (2 L_{\odot} + M_{\odot}) + 0.00012 \sin (2 L_{\odot} + M_{\odot}) + 0.00012 \sin (2 L_{\odot} + M_{\odot}) + 0.00012 \sin (2 L_{\odot} + M_{\odot}) + 0.00012 \sin (2 L_{\odot} + M_{\odot}) + 0.00012 \sin (2 L_{\odot} + M_{\odot}) + 0.00012 \sin (2 L_{\odot} + M_{\odot}) + 0.00012 \sin (2 L_{\odot} + M_{\odot}) + 0.00012 \sin (2 L_{\odot} + M_{\odot}) + 0.00012 \sin (2 L_{\odot} + M_{\odot}) + 0.00012 \sin (2 L_{\odot} + M_{\odot}) + 0.00012 \sin (2 L_{\odot} + M_{\odot}) + 0.00012 \sin (2 L_{\odot} + M_{\odot}) + 0.00012 \sin (2 L$$

t = 0 für 1947 Januar 1.1968 Weltzeit,

Für 1947.0 gilt: m = +3.0732, n = +20.043,  $\epsilon = 23.026$ 

$$\alpha_{\text{app.}} = \alpha_{\text{1947.0}} + t \, \mu_{\alpha} + Aa + Bb + Cc + Dd + E + [A'a + B'b] \\
\delta_{\text{app.}} = \delta_{\text{1947.0}} + t \, \mu_{\delta} + Aa' + Bb' + Cc' + Dd' + [A'a' + B'b']$$

μ<sub>α</sub>, μ<sub>λ</sub> jährliche Eigenbewegung in Rektaszension, bez. Deklination.

Setzt man

$$f = mA + E$$
  $f' = mA'$   $i = C \operatorname{tg} \varepsilon$   $g \sin G = B$   $g' \sin G' = B'$   $h \sin H = C$   $g \cos G = nA$   $g' \cos G' = nA'$   $h \cos H = D$ ,

so wird:

$$lpha_{\text{app.}} = lpha_{1947.0} + t \, \mu_{\alpha} + f + {}^{1}/_{15} g \sin (G + \alpha) \, \text{tg } \delta + {}^{1}/_{15} h \sin (H + \alpha) \, \text{sec } \delta + [f' + {}^{1}/_{15} g' \sin (G' + \alpha) \, \text{tg } \delta]$$

$$\delta_{\text{app.}} = \delta_{1947.0} + t \, \mu_{\delta} + g \cos (G + \alpha) + h \cos (H + \alpha) \sin \delta + i \cos \delta + [g' \cos (G' + \alpha)]$$

				0 h	Weltz	eit			
Tag	Stern- zeit Green- wich	t	1	log g	G	log h	Н	log i	i
- 1947									
Jan. o	h 6.6	a -0.0033	s 0.970	0.8353	h m	1.3103	h m 23 28.0	0.0913n	-1.234
I	6.7	-0.0005	0.958	0.8312	13 32.8	1.3101	23 24.2	0.1386n	1.376
2	6.7	+0.0022	0.947	0.8272	13 34.3	1,3099	23 20.5	0.1818n	1.520
3	6.8	0.0049	0.935	0.8232	13 35.8	1.3097	23 16.7	0.2206n	1,662
4	6.9	0.0077	0.924	0.8192	13 37.3	1.3094	23 12.9	0.2560n	1.803
5	6.9	0.0104	0.912	0.8152	13 38.9	1.3092	23 9.2	0.2887n	1.944
6		0.0132		0.8112	13 40.6	1,3089		0.3189n	-2.084
7	7.0 7.0	0.0132	-0.901 0.890	0.8112	13 42.3	1.3089	23 5.4 23 1.6	0.3189n $0.3471n$	2.224
8	7.1	0.0139	0.879	0.8033	13 44.1	1.3082	22 57.8	0.34/1n $0.3735n$	2.363
9	7.2	0.0214	0.867	0.7994	13 45.9	1.3079	22 54.0	0.3983n	2.502
10	7.2	0.0241	0.856	0.7955	13 47.7	1.3075	22 50.2	0.4214n	2.639
11	7.3	0.0268	0.845	0.7917	13 49.6	1.3071	22 46.4	0.4434n	2.776
12	7.4	0.0296	-0.834	0.7880	13 51.5	1.3067	22 42.6	0.4640n	-2.911
13	7.4	0.0323	0.823	0.7842	13 53.5	1.3063	22 38.8	0.4837n	3.046
14	7.5	0.0351	0.812	0.7805	13 55.5	1.3058	22 35.0	0.5026n	3.181
15	7.6	0.0378	0.801	0.7769	13 57.6	1.3054	22 31.1	0,5202n	3.313
16	7.6	0.0406	0.791	0.7732	13 59.7	1.3049	22 27.3	0.5372n	3.445
17	7.7	0.0433	0.780	0.7697	14 1.8	1.3044	22 23.4	0.5533n	3.575
18	7.8	0.0460	-0.770	0.7663	14 4.0	1.3039	22 19.6	0.5688n	-3.705
. 19	7.8	0.0488	0.759	0.7629	14 6.2	1.3034	22 15.7	0.5835n	3.833
20	7.9	0.0515	0.749	0.7595	14 8.5	1.3028	22 11.8	0.5977n	3.960
21	8.0	0.0542	0.738	0.7562	14 10.8	1.3023	22 7.9	0.6112n	4.085
22	8,0	0.0570	0.728	0.7530	14 13.1	1.3017	22 4.1	0.62431	4.210
23	8.1	0.0597	0.718	0.7498	14 15.4	1.3012	22 O.I	0.6369n	4.334
24	8.2	0.0625	0.708	0.7467	14 17.8	1.3006	21 56.2	0.6489n	-4.456
25	8.2	0.0652	0.698	0.7437	14 20.2	1.3000	21 52.3	0.6605n	4.576
26	8.3	0.0680	0.688	0.7407	14 22.7	1.2994	21 48.4	0.6716n	4.695
27	8.4	0.0707	0.678	0.7379	14 25.1	1.2988	21 44.4	0.6823n	4.812
28	8.4	0.0734	0.669	0.7351	14 27.6	1.2982	21 40.5	0.6927n	4.928
29	8.5	0.0762	0.659	0.7324	14 30.1	1.2976	21 36.5	0.7026n	5.042
30	8.6	0.0789	-0.650	0.7298	14 32.6	1.2969	21 32.5	0.712In	-5.154
31	8.6	0.0816	0.640	0.7273	14 35.1	1.2963	21 28.6	0.7214n	5.265
Febr. 1	8.7	0.0844		0.7248	14 37.6	1.2956	21 24.6	0.7304n	5.375
2	8.8	0.0871		0.7225	14 40.2	1.2950	21 20.6	0.7389n	5.482
3	8,8	0.0899	0.613	0.7202	14 42.9	1.2943	21 16.5	0.7472n	5.587
4	8.9	0.0926	0.604	0.7181	14 45.5	1.2936	21 12.5	0.7553n	5.692
5	9.0	0.0954	-0.595	0.7161	14 48.1	1.2930	21 8.5	0.7630n	一5.794
6	9.0	0.0981	0.586	0.7140	14 50.7	1.2923	21 4.4	0.7704n	5.894
7	9.1	0.1008	0.577	0.7120	14 53.3	1.2916	21 0.4	0.7776n	5.993
8	9.2	0.1036	0.568	0.7102	14 56.0	1.2910	20 56.3	0.7845n	6.089
9.	9.2	0.1063	0.560	0.7085	14 58.6	1.2903	20 52.2	0.79131	6.184
10	9.3	0.1090	-0.552	0.7068	15 1.2	1.2897	20 48.1	0.7978n	-6.277

					0 h W e	ltzei	t				
Tag	<i>f'</i> -	g'	G'	Allgemeine Präzession seit 1947.0	Δψ	Δψ΄	Mittlere Schiefe	Δε	Δε'	1	k
1947	S in 0.001	in o.ot	h			in 0.01	23° 26′		in 0.01	in o	.oox
Jan. o	<b>–</b> 5	+10	16.7	-0.16	-15.69	- 9	46.24	+2.66	+10	30	89
1	-12	11	15.3	-0.03	15.64	-19	46.24	2.67	+ 9	30	89
2	16	12	13.8	- <del>+</del> 0.11	15.59	-27	46.23	2.69	+ 6	29	89
3	—18	12	12.4	0.24	15.54	-30	46.23	2.70	; + r	29	89
. 4	-17	II	10.7	0.38	15.49	-27	46.23	2.72	- 4	29	89
5	II	II	8.8	0.52	15.44	-18	46.23	2.73	- 8	28	89
6	<b>—</b> 3	+10	6.8	+0.66	-15.39	- 6	46.23	+2.75	-10	28	89
7	+ 5	10	4.7	0.79	15.34	+9	46,23	2.7.7	-10	28	89
8	+12	11	2.8	0.93	15.30	+20	46.23	2.79	- 7	28	89
9	+17	II	0.8	1.07	15.25	+28	46,23	2.81	- 3	27	89
10	+18	12	23.2	1.21	15.21	+29	46.22	2.83	+ 3	27	89
II	+15	12	21.8	1.35	15.16	+25	46.22	2.85	+ 7	27	89
12	+10	+12	20.3	+1.49	-15.12	+17	46.22	+2.87	+10	27	88
13	+ 4	11	18.9	1,62	15.08	+ 7	46.22	2.89	+10	27	88
14	· — 2	9	17.5	1.76	15.04	<b>—</b> 3	46.22	2.91	+ 9	26	88
15	<b>-</b> 6	7	15.7	1.90	15.00	-10	46.22	2.94	+ 6	26	88
16	<b>-</b> 9	6	13.3	2.04	14.96	-14	46.22	2.96	+ 2	26	88
17	<b>-</b> 9	6	10.7	2.17	14.92	-14	46.22	2.98	<b>–</b> 2	26	88
18	- 7	+ 7	8.7	+2.31	<b>⊸14.89</b>	-12	46.21	+3.01	- 5	25	88
19	- 4	8	7.2	2.45	14.86	- 7	46.21	3.03	- 8	25	88
20	0	9	6.0	2.58	14.83	0	46.21	3.06	- 9	25	88
21	+ 4	9	4.9	2.72	14.79	+ 6	46.21	3.08	<b>-9</b>	25	88
22	+ 7	8	3.7	2.86	14.76	+12	46.21	3.11	- 7	25	87
23	+ 9	7.	2.1	2.99	14.73	+15	46.21	3.13	- 4	25	87
24	+ 9	+ 6	0.0	+3.13	-14.71	+15	46.21	+3.16	0	24	87
25	+ 7	6	21.3	3.27	14.68	+12	46.21	3.18	+ 4	24	87
26	+ 3	8	19.1	3.41	14.66	+ 5	46.20	3.21	+ 7	24	87
27	- 3	9	17.2	3.54	14.64	- 5	46.20	3.24	+ 9	24	87
28	- 9	II	15.8	3.68	14.62	-15	46.20	3.26	+ 9	24	87
29	-14	12	14.4	3.82	14.60	-23	46.20	3.29	+ 7	24	87
30	-17	+12	12.9	- +3.96	-14.58	-29	46.20	+3.32	+ 3	23	86
31	-17	12	11.3	4.10	14.56	-28	46.20	3.34	<b>–</b> 2	23	86
Febr. 1	-13	II	9.5	4.24	14.55	-22	46.20	3.37	- 7	23	86
2	- 7	II	7.7	4.37	14.54	—II	46.20	3.40	-10	23	86
3	+ 1	10	, 5:7	4.51	14.53	+ 2	46.19	3.43	-10	23	86
4	+ 9	10	3.7	4.65	14.52	+15	46.19	3.45	<b>-</b> 9	23	86
5	+14	+10	1.7	+4.79	-14.51	+24	46.19	+3.48	5	23	86
6	+17	11	23.8	4.92	14.51	+28	46.19	3.51	+ i	23	86
7	+16	12	22.2	5.06	/14.50	+26	46.19	3.54	+ 5	23	86
8	+11	12	20.7	5.20	14.50	+19	46.19	3.56	+ 9	22	85
9	+ 6	II	19.3	5.33	14.49	+9	46.19	3.59	+11	22	85
10	0	+10	17.9	+5.47	-14.49	- I	46.18	+3.62	+10	22	85

				Оъ	Weltz	eit ,			
Tag	Stern- zeit Green- wich	t	f	log g	G	log h	Н	log i	i
1947									
Febr. 10	h 9.3	a 0.1090	s —0.552	0.7068	h m	1.2897	h m 2048.1	0.7978n	-6.277
11	9.3	0.1117	0.544	0.7052	15 3.8	1.2890	20 44.0	0.80391	6.367
12	9.4	0.1144	0.535	0.7037	15 6.4	1.2884	20 39.9	0.8100n	6.456
13	9.5	0.1172	0.527	0.7023	15 8.9	1.2877	20 35.8	0.8158n	6.543
14	9.5	0.1199	0.519	0.7009	15 11.5	1,2871	20 31.6	0.82131	6.627
15	9.6	0.1227	0.511	0.6996	15 14.1	1.2864	20 27.5	0.8267n	6.710
			337		1000000				
16	9.7	0.1254	-0.503	0.6984	15 16.7	1.2858	20 23.3	0.8319n	-6.790
17	9.7	0.1281	0.496	0.6972	15 19.2	1.2852	20 19.1	0.8368n	6.868
18	9.8	0.1309	0.488	0.6961	15 21.7	1.2846	20 15.0	0.8416n	6.944
19	9.9	0.1336	0.480	0.6941	15 24.1	1.2834	20 10.8	0.8462n 0.8506n	7.018
20	9.9	0.1363	0.473 0.466	0.6932	15 29.1	1.2828	20 0.0	0.8549n	7.090
21	10.0	0.1391			1000 3 1000				
22	10.1	0.1418	0.458	0.6923	15 31.6	1.2822	19 58.2	0.8589n	-7.226
23	10.1	0.1446	0.451	0.6915	15 34.0	1.2817	19 53.9	0.8628n	7.291
24	10.2	0.1473	0.443	0.6907	15 36.4	1.2811	19 49.7	0.8665n	7.354
25	10.3	0.1501	0.436	0.6899	15 38.7	1.2806	19 45.4	0.8701n	7.414
26	10.3	0.1528	0.429	0.6891	15 41.1	1.2801	19 41.2	0.8735n	7.473
27	10.4	0.1555	0.423	0.6884	15 43.4	1.2796	19 36.9	0.87671	7.528
28	10.5	0.1583	-0.416	0.6878	15 45.7	1.2791	19 32.7	0.8798n	-7.582
März 1	10.5	0.1610	0.409	0.6872	15 48.0	1.2786	19 28.4	0.8826n	7.632
2	10.6	0.1637	0.402	0.6866	15 50.3	1.2782	19 24.1	0.8854n	7.681
3	10.7	0.1665	0.395	0.6860	15 52.5	1.2777	19 19.8	0.888on	7.727
4	10.7	0.1692	0.388	0.6854	15 54.7	1.2773	19 15.5	0.8905n	7.771
5	10.8	0.1720	0.382	0.6849	15 56.9	1.2769	19 11.2	0.8928n	7.812
6	10.9	0.1747	-0.375	0.6843	15 59.1	1.2766	19 6.9	0.8949n	-7.851
7	10.9	0.1775	0.369	0.6837	16 1.2	1.2762	19 2.6	0.8970n	7.888
8	11.0	0.1802	0.362	0.6831	16_ 3.3	1.2759	18 58.3	0.8988n	7.922
9	II.I	0.1829	0.356	0.6825	16 5.4	1.2756	18 54.0	0.9006n	7.954
10	II.I	0.1857	0.350	0.6820	16 7.5	1.2753	18 49.6	0.9022n	7.983
11	11.2	0.1884	0.344	0.6814	16 9.6	1.2750	18 45.3	0.9036n	8.010
		10000	All A KIRLO	Street Lat	STORESTAN				100000
12	11.3	0.1911	-0.337	0.6808	16 11.7	1.2748	18 41.0	0.9049n 0.9062n	-8.034
13	11.3	0.1939	0.331	0.6796	16 15.8	1.2744	18 32.3		8.057 8.076
14	11.4	0.1900	0.324	0.6790	16 17.8	1.2742	18 28.0	0.9072n $0.9082n$	8.094
16	11.5	0.1994	0.312	0.6784	16 19.8	1.2741			8.108
17	11.5	0.2021	0.312	0.6777	16 21.7	1.2741	18 23.7	0.9089n 0.9096n	8.121
					S. 30 - 10.	S 20 17	200000000000000000000000000000000000000		13 14 A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
18	11.6	0.2076	-0.300	0.6770	16 23.7	1.2738	18 15.0	0.91011	-8.130
19	11.7	0.2103	0.294	0.6763	16 25.6	1.2738	18 10.7	0.9105n	8.138
20	11.8	0.2131	0.287	0.6756	16 27.6	1.2737	18 6.3	0.9107n	8.141
21	11.8	0.2158	0.281	0.6748	16 29.5	1.2737	18 2.0	0.9108n	8.144
22	11.9	0.2185	0.275	0.6740	16 31.5	1.2737	17 57.7	0.9108n	8.144
23	12.0	0.2213	-0.269	0.6732	16 33.4	1.2737	17 53 3	0.9107n	-8.142

					0 h W e l	tzei	t	1			
Tag	f'	g'	G'	Allgemeine Präzession seit 1947.0	Δψ	Δψ'	Mittlere Schiefe	Δε	Δε'	i	k
1947	s in o.oot	in o.or	h		,,	in o.or	23° 26′	"	in o.or	in o	.001
Febr. 10	0	+10	17.9	+ 5.47	-14.49	— I	46.18	+3.62	+10	22	85
11	5	8	16.3	5.61	14.50	- 9	46.18	3.65	+ 7	22	85
12	— 8	7	14.2	5.74	14.50	-14	46.18	3.67	+ 4	22	85
13	- 9	6	11.5	5.88	14.50	-15	46.18	3.70	- I	22	85
14	- 8	7	9.2	6.02	14.51	—13	46.18	3.73	<b>—</b> 5	22	85
15	<b>—</b> 5	8	7.5	6.16	14.52	<b>—</b> 8	46.18	3.75	- 8	22	84
16	I	+9	6.3	+ 6.29	-14.53	<b>— 2</b>	46.18	+3.78	- 9	22	84
17	+ 3	9	5.1	6.43	14.54	+ 5	46.18	3.80	<b>-</b> 9	22	84
18	+ 7	8	3.9	6.57	14.55	+11	46.17	3.83	- 7	22	84
19	+ 9	8	2.5	6.71	14.56	+15	46.17	3.85	- 5	22	84
20	+10	7	0.5	6.85	14.58	+17	46.17	3.88	- ī	22	84
21	+9	7	22,1	6.99	14.60	+14	46.17	3.90	+ 3	22	84
22	+ 5	+ 7	19.8	+ 7.12	-14.61	+ 8	46.17	+3.93	+ 7	21	84
23	0	9	17.9	7.26	14.63	/ o	46.17	3.95	+ 9	21	84
24	- 6	10	16.4	7.40	14.65	-10	46.17	3.97	+ 9	21	83
25	-12	II	15.0	7.54	14.67	-20	46.17	4.00	+ 8	21	83
26	-16	11	13.4	7.67	14.69	-26	46.16	4.02	+ 4	21	83
27	-17	11	11.7	7.81	14.72	-28	46.16	4.04	- I	21	-83
28	-14	+11	10.1	+ 7.95	-14.74	-24	46.16	+4.06	<b>— 5</b>	21	83
März 1	- 9	II	8.2	8.09	14.77	-r5	46.16	4.08	- 9	21	83
2	- I	10	6.3	8.23	14.80	2	46.16	4.10	-10	21	83
3	+ 6	10	4.4	8.37	14.83	+10	46.16	4.12	- 9	21	83
4	+12	10	2.4	8.50	14.86	+20	46.16	4.14	<b>-</b> 6	21	83
5	+16	10	0.5	8.64	14.89	+26	46.16	4.16	<b>—</b> I	21	83
6	+16	+11	22.7	+ 8.78	-14.92	+26	46.15	+4.18	+ 4	21	83
7	+12	11	21.1	8.92	14.95	+20	46.15	4.19	+ 8	21	83
8	+ 7	11	19.6	9.05	14.98	+11	46.15	4.21	+10	21	-82
9	+ 1	10	18.2	9.19	15.01	+ 2	46.15	4.23	+10	21	82
10	4	9	16.7	9.33	15.04	- 7	46.15	4.24	+ 8	21	82
11	- 8	7	14.8	9.46	15.08	—I 3	46.15	4.26	+ 5	21	82
12	-10	+ 6	12.4	+ 9.60	-15.11	-16	46.15	+4.27	+ r	21	82
13	- 9	7	10.0	9.74	15.15	-15	46.15	4.28	- 3	21	82
14	- 6	8	8.1	9.87	15.18	-10	46.14	4.30	- 7	21	82
15	- 2	9	6.7	10,01	15.22	- 4	46.14	4.31	- 9	21	82
16	+ 2	10	5.5	10.15	15.25	+ 3	46.14	4.32	<b>-</b> 9	21	82
17	+ 6	9	4.3	10.29	15.29	+10	46.14	4.33	<b>–</b> 8	21	82
18	+ 9	+ 8	2.9	+10.42	-15.33	+15	46.14	+4.34	- 6	21	82
19	+10	7	1.0	10.56	15.37	+17	46.14	4.35	- 2	21	82
20	+9	7	22,8	10.70	15.40	+15	46.14	4.36	+ 2	21	82
21	+ 7	7	20.5	10.84	15.44	十11	46.13	4.37	+ 6	21	82
22	+ 2	9	18.5	10.98	15.47	+ 3	46.13	4.37	+ 9	21	82
23	- 4	+10	16.9	+11.12	-15.51	<b>-7</b>	46.13	+4.38	+9	21	82

					0 h	Weltz	eit -			
Ta	ıg	Stern- zeit Green- wich	t	f	log g	G	log h	Н	log i	i
19.	47									
März		h 12.0	a 0,2213	s 0.269	0.6732	h m 16 33.4	1.2737	h m	0.9107n	-8.142
Maiz	24	12.0	0.2240	Carlot St. St. Co.	0.6724	16 35.4	1.2738	17 49.0	0.9105n	8.137
	25	12.1	0.2268	0.257	0.6715	16 37.3	1.2739	17 44.7	0.9101n	8.130
	26	12.2	0.2295	0.250	0.6706	16 39.2	1.2740	17 40.4	0.9095n	8.119
	27	12.2	0.2322	0.244	0.6697	16 41.1	1.2741	17 36.1	0.9089n	8.107
	28	12.3	0.2349	0.238	0.6687	16 43.1	1.2742	17 31.8	0.9081n	8.093
	20	12.4	0.2376	-0.232	0.6677	16 45.0	1.2744	17 27.5	0.9072n	-8.076
	29 30	12.4	0.2404	0.232	0.6667	16 47.0	1.2746	17 23.2	0.9072n	8.056
	31	12.4	0.2431	0.219	0.6657	16 48.9	1.2748	17 18.9	0.9049n	8.034
April		12.6	0.2458	0.213	0.6646	16 50:9	1.2750	17 14.6	0.9036n	8,010
1xpin	2	12.6	0.2486	0.207	0.6635	16 52.8	1.2753	17 10.3	0.90221	7.983
	3	12.7	0.2513	0,200	0.6624	16 54.8	1.2756	17 6.1	0.9006n	7.954
	4	12.8	0.2541	-0.194	0.6613	16 56.8	1.2759	17 1.8	0.8989n	-7.923
	5	12.8	0.2568	0.194	0.6600	16 58.8	1.2762	16 57.6	0.8970n	7.889
	6	12.9	0.2596	0.181	0.6587	17 0.8	1.2765	16 53.3	0.8950n	7.853
	7	13.0	0.2623	0.174	0.6574	17 2.8	1.2769	16 49.1	0.8929n	7.815
	8	13.0	0.2650	0.168	0.6561	17 4.9	1.2773	16 44.9	0.8906n	7.774
S	9	13.1	0.2678	0,161	0.6548	17 7.0	1.2777	16 40.6	0.8883n	7.732
	200				0.6535			4-3-1-1	TO SECURE STORY	
	10	13.2	0.2705	0.154	0.6522	17 9.2	1.2781	16 36.5 16 32.3	0.8858n 0.8830n	<b>-7.687</b>
	11	13.2	0.2732	0.148	0.6508	17 13.6	1.2790	16 28.1	0.8802n	7.639
	13	13.4	0.2786	0.134	0.6495	17 15.8	1.2795	16 23.9	0.8802n $0.8773n$	7.538
	14	13.4	0.2814	0.134	0.6481	17 18.0	1.2800	16 19.8	0.87/3n $0.8742n$	7.485
	15	13.5	0.2841	0.120	0.6467	17 20.3	1,2805	16 15.6	0.8709n	7.429
	223				S 2 55 30 - 3					
	16	13.6	0.2869	-0.112	0.6452	17 22.6	1.2810	16 11.5	0.8675n	<b>-7.37</b> I
	17	13.6	0.2896	0.105	0.6438	17 24.9	1.2815	16 7.4	0.8640n	7.311
	18	13.7	0.2923	0.098	0.6423	17 27.3	1.2820	16, 3.3/	0,8602n	7.248
78	19	13.8	0.2951	0.091	0.6409	17 29:7	1.2826	15 59.2	0.8564n	7.184
	20	13.8	0.2978	0.083	0.6394 0.6380	17 32.2	1.2832	15 55.1	0.8523n	7.117
	21	13.9	0.3005	0.076		17 34.7		15 51.0	0.8481n	7.049
	22	13.9	0.3033	-0.068	0.6366	17 37.3	1.2843	15 46.9	0.8437n	6.978
1	23	14.0	0.3060	0.061	0.6352	17 39.8	1.2849	15 42.9	0.8392n	6.905
	24	14.1	0.3088	0.053	0.6338	17 42.4	1.2855	15 38.9	0.8345n	6.831
	25	14.1	0.3115	0.045	0.6325	17 45.1	1.2861	15 34.9	0.8296n	6.755
	26	14.2	0.3143	0.037	0.6313	17 47.8	1.2867	15 30.9	0.8246n	6,677
	27	14.2	0.3170	0.029	0.6300	17 50.6	1.2873	15 26.9	0.8193n	6.597
	28	14.3	0.3197	0.021	0.6288	17 53.4	1.2879	15 22.9	0.8138n	-6.514
	29	14.4	0.3225	0,013	0.6276	17 56.2	1.2886	15 18.9	0.8083n	6.431
	30	14.5	0.3252	-0.005	0.6264	17 59.1	1.2892	15 15.0	0.8024n	6.345
Mai	I	14.5	0.3279	+0.003	0.6253	18 2.1	1.2898	15 11.1	0.7964n	6,258
1000	2	14.6	0.3307	0.012	0.6243	18 5.1	1.2905	15 7.1	0.7902n	6.169
5	3	14.7	0.3334	+0.020	0.6233	18 8.1	1.2911	15 3.2	0.7838n	-6.078

					Oh Wel	tzeit					
Tag	11	g'	G'	Allgemeine Präzession seit 1947.0	Δψ	Δψ	Mittlere Schiefe	Δε	Δε'	î	k
1947	S in 0.001	in o.or	h	".		in o.ot	23° 26′	,,	in o.or	in o.	.001
März 23	- 4	+10	16.9	+11.12	-15.51	- 7	46.13	+4.38	+ 9	21	82
24 . 24	-10	11	15.4	11.25	15.55	-17	46.13	4.39	+ 8	21	82
25	-14	II	13.9	11.39	15.59	-24	46.13	4.39	+ 5	21	82
26	-16	· II	12,2	11.53	15.62	-27	46.13	4.40	+ 1	20	82
27	-15	10	10.5	11.67	15.66	-24	46.13	4.40	<del>-</del> 4	20	82
28	-10	10	8.6	11.80	15.69	-16	46.13	4.40	- 8	20	82
29	<b>—</b> 3	+10	6.7	+11.94	-I 5.73	- 5	46.12	+4.41	-10	20	82
30	+ 5	I.O	4.9	12.08	15.76	+ 7	46.12	4.41	10	20	82
. 31	+11	10	3.0	12,21	15.80	+18	46.12	4.41	<b>—</b> 7	20	82
April 1	+15	10	I.I	12.35	15.83	+25	46.12	4.41	<b>—</b> 3	20	82
2	+16	II	23.1	12.49	15.87	+26	46.12	4.41	+ 2	20	82
. 3	+13	11	21.5	12.62	15.90	+22	46.12	4.41	+ 7	20	82
4	+9	+11	20.0	+12.76.	-15.94	+14	46.12	+4.41	+10	20	82
5 .	+ 2	ΙΊ	18.6	12.90	15.97	+ 4	46.12	4.41	+11	20	82
6	<b>—</b> 3	9	17.2	13.04	16.00	<b>—</b> 5	46.11	4.41	+ 9	20	82
7	- 8	8	15.4	13.18	16.03	-13	46.11	4.40	+ 6	20	82
8	-10	7	13,2	13.32	16.06	-16	46.11	4.40	+. 2	20	83
9	-10	7	10.8	13.46	16.08	-16	46.11	4.40	<b>— 2</b>	20	83
10	- 8	+ 8	8.7	+13.60	-16.11		46.11	+4.39	- 6	20	83
TI.	- 4	9	7.2	13.74	16.14	- 7	46.11	4.39	- 8	20	83
12	0	9	5.9	13.88	16.17	+ 1	46.11	4.38	- 9	20	83
13	+ 4	9	4.8	14.01	16.19	+ 7	46.11	4.38	- 9	19	83
14	+.8	.8	3.5	14.15	16.21	+13	46.10	4.37	- 7	19	83
15	+10.	7	1.8	14.29	445.4565	+16	46.10	4.37	- 3	, 19	83
16	+10	+ 6	23.6	+14.43	-16.26	+16	46.10	+4.36	+ 1	19	83
17	+ 7	7	21.0	14.56	16.28	+12	46.10	4.35	+ 5	19	84
1.8	+ 3	8	18.9	14.70	16.30	+ 5	46.10	4.34	+ 8	19	84
. 19	- 3	10	17.2	14.84	16.32	— 5	46.10	4.34	+ 9	19	84
20	<b>-9</b>	II	15.8	14.98	16.33	-15	.46.10	4.33	+ 9	19	84
21	-14	II	14.4	15.12	16.35	-23	46.09	4.32	+ 6	19	.84
22	-16	+1.1	12.8	+15.26	716.36	-27	46.09	+4.31	+ 2	19	84
23	-15	10	11.0	15.39	16.37	-25	46.09	4.30	- 3	19	84
24	-11	10	9.1	15.53	16.38	-19	46.09	4.29	- 7.	19	84
25	- 5	10	7.1	15.67	16.39	<b>— 8</b>	46.09	4.28	-10	19	84
26	+ 3	II	5.3	15.81	16.40	+ 5	46.09	4.27	-10	19	84
27	+10	II	3.4	15.94	16.41	+17	46.09	4.26	8	19	85
28	+15	+11	1.6	+16.08	-16.42	+25	46.09	+4.25	<b>-4</b>	19	85
29	+17.	II	23.7	16.22	16.42	+28	46.08	/ 4.24	. + I	19	85
30	+15	II	22.0	16.35	16.43	+25	46.08	4.23	+ 6	19	85
Mai i	+11		20.5	16.49	16.43	+17	46,08	4.22	+ 9	19	85
2	+ 5	II		16.63	16.43	+ 8	46.08	4.21	+10	18	85
1362 143	- I	+10	17.6	+16.76	-16.43	- 2	46.08	+4.20	+10	18	85

100				О ь	Weltz	eit			
Tag	Stern- zeit Green- wich	t	f	log g	G	log h	Н	log i	i
1947	h				h m		h m		
Mai 3	14.7	o.3334	+0,020	0.6233	18 8.1	1,2911	15 3.2	0.7838#	-6.078
4	14.7	0.3362	0.029	0.6224	18 11.2	1.2917	14 59.3	0.77712	5.985
5	14.8	0.3389	0.037	0.6217	18 14.3	1.2924	14 55.4	0.7702%	5.891
6	14.9	0.3417	0.046	0.6210	18 17.5	1.2930	14 51.6	0.7631n	5.795
7	14.9	0.3444	0.055	0.6204	18 20.7	1.2936	14 47.7	0.7556n	5.697
8	15.0	0.3471	0.064	0.6198	18 23.9	1.2942	14 43.8	0.74812	5.599
9	15.1	0.3499	+0.073	0.6193	18 27.1	1.2949	14 40.0	0.7401%	-5.497
10	15.1	0.3526	0.082	0.6190	18 30.4	1.2955	14 36.2	0.7320%	5.395
11	15.2	0.3553	0.091	0.6188	18 33.8	1.2961	14 32.4	0.72351	5.291
12	15.3	0.3580	0.101	0.6187	18 37.2	1.2967	14 28.6	0.71491	5.187
13	15.3	0.3607	0.110	0.6188	18 40.6	1.2973	14 24.8	0.7059n	5.080
14	15.4	0.3635	0.119	0.6189	18 44.0	1.2979	14 21.1	0.6965n	4.972
15	15.5	0.3662	+0.129	0.6192	18 47.5	1.2985	14 17.3	0.6869n	-4.863
16	15.5	0.3690	0.139	0.6195	18 51.0	1.2991	14 13.6	0.6769n	4.752
. 17	1.5.6	0.3717	0.148	0.6200	18 54.5	1.2997	14 9.8	0.6665n	4.640
18	15.7	0.3744	0.158	0.6207	18 58.0	1.3002	14 6.1	0.655711	4.526
19	15.7	0.3772	0.168	0.6216	19 1.5	1,3008	14 2.4	0.6446n	4.412
20	15.8	0.3799	0.178	0.6225	19 5.0	1.3013	13 58.7	0.6332n	4.297
21	15.9	0.3826	+0.188	0.6235	19 8.6	1.3019	13 55.0	0.62121	-4.180
22	15.9	0.3854	0.198	0.6247	19 12.2	1.3024	13 51.3	0.6087n	4.062
23	16.0	0.3881	0.208	0.6260	19 15.7	1.3029	13 47.7	0.5958n	3.943
24	16.1	0.3909	0.218	0.6275	19 19.2	1.3034	13 44.0	0.5825n	3.824
25	16.1	0.3936	0,228	0.6292	19 22.7	1.3039	13 40.4	0.568411	3.702
26	16.2	0.3964	0.239	0.6311	19 26.2	1.3044	13 36.7	0.553912	3.580
27	16.2	0.3991	+0.249	0.6331	19 29.7	1.3048	13 33.1	0.5386n	-3.456
28	16.3	0.4018	0.260	0.6352	19 33.2	1.3053	13 29.5	0.52271	3.332
29	16.4	0.4046	0.270	0.6375	19 36.7	1.3057	13 25.8	0.5062n	3.208
30	16.4	0.4073	0.281	0.6399	19 40.1	1.3061	13 22.2	0.4888n	3.082
31	16.5	0.4100	0.291	0.6424	19 43.5	1.3065	13 18.6	0.4706n	2.955
Juni 1	16.6	0.4128	0.302	0.6449	19 46.9	1.3069	13 15.1	0.45152	2.828
2	16.6	0.4155	+0.313	0.6476	19 50.2	1.3073	13 11.5	0.4314n	-2.700
3	16.7	0.4183	0.324	0.6506	19 53.5	1.3077	13 7.9	0:41012	2,571
4	16.8	0.4210	0.334	0.6537	19 56.7	1.3080	13 4.3	0.3876n	2.441
5	16.8	0.4238		0,6569	19 59.9	1.3083	13 0.8	0.3640n	2.312
6	16.9	0 4265	0.356	0.6602	20 3.0	1.3087	12 57.2	0.3387n	2.181
7	17.0	0.4292	0.367	0.6637	20 6.1	1.3089	12 53.7	0.3115#	2.049
8	17.0	0.4320	+0.378	0.6672	20 9.1	1.3092	12 50.2	0.2826n	1.917
9	17.1	0.4347	0.389	0.6708	20 12,1	1.3095	12 46.6	0.2516n	1.785
10	17.2	0.4374	0.400	0.6745	20 15.0	1.3097	12 43.0	0.2180n	1.652
11	17.2	0.4402	0.412	0.67.82	20 17.9	1.3099	12 39.5	0.1816n	1.519
12	17.3	0.4429	0.423	0.6821	20 20.7	1.3101	12 36.0	0.14141	1.385
13	17.4	0.4457	+0.434	0.6860	20 23.5	1,3103	12 32.5	0.09731	-1.251

					Oh Wel	tzei	l .			4.1	
Tag	ť	g'	G'	Allgemeine Präzession seit 1947.0	Δψ	Δψ΄	Mittlere Schiefe	Δε	Δε'	i	k
1947	S in 0.001	in o.o.	h			in o.ot	23° 26′		in o.or	in o.	001
Mai 3	1	+10	17.6	+16.76	-16.43	<b>— 2</b>	46.08	+4.20	+10	18	85
4	- 6	8	16.0	16.90	16.42	-10	46.08	4.19	+ 7	18	85
5	- 9	7	13.9	17.04	16.42	-15	46.08	4.18	+ 3	18	86
6	-10	7	11.5	17.18	16.41	-16	46.08	4.17	<b>— 1</b>	18	86
7	<b>∠</b> 9	7	9.4	17.31	16.40	-14	46.07	4.16	5	18	86
8	7 5	8	7.7	17.45	16.39	<b>-9</b>	46.07	4.14	- 7	18	86
9	- 1	+9	6.3	+17.59	-16.39	- 2	46.07	+4.13	- 9	18	86
10	+ 3	10	5.2	17.73	16.38	+ 5	46.07	4.12	- 9	18	86
11	+ 6	9	4.0	17.87	16.37	+11	46.07	4.11	<b>-7</b>	18	86
12	+9	7	2.4	18.01	16.35	+15	46.07	4.10	- 4	18	86
13	+10	6	0.4	18.14	16.34	+16	46.07	4.09	— I	18	87
14	+ 8	6	21.7	18.28	16.32	+13	46.07	4.08	+ 4	18	87
15	+ 4	+ 8	19.3	+18.42	-16.30	+ 7	46.06	+4.07	+ 7	18	87
16	- 2	9	17.6	18.56	16,28	- 3	46.06	4.06	+9	18	87
17	8	10	16.1	18.69	16.26	-13	46.06	4.05	+9	18	87
18	-13	12	14.8	18.83	16.24	-22	46.06	4.04	+ 8	18	87
19	-17	12	13.2	18.97	16.22	-28	46.06	4.03	+ 4	18	87
20	-17	II	11.6	19.10	16.19	-28	46.06	4.03	— I	18	87
21	-14	+11	9.8	+19.24	-16.17	-23	46.06	+4.02	<b>–</b> 6	18	87
22	- 7	11	7.8	19.38	-16.14	-12	46.06	4.01	9	18	88
23	+ 1	11	5.9	19.51	16.11	1'+	46.05	4.00	-11	18	88
24	+ 9	11.	3.9	19.65	16.08	+14	46.05	3.99	<b>-9</b>	18	88
25	+15	11	2.1	19.79	16.05	+24	46.05	3.98	6	19	88
26	+18	12	0,2	19.93	16.02	+29	46.05	3.98	— I	19	88
. 27	+17	+12	22.6	+20.06	-15.99	+28	46.05	+3.97	+ 4	19	88
28	+13	12	21.1	20,20	15.96	+21	46.05	3.97	+ 8	19	88
29	+ 7	11	19.6	20.34	15.92	+12	46.05	3.96	+10	19	88
30	+ 1	10	18.2	20.48	15.88	+ 2	46.05	3.95	+10)	19	88.
31	5	9	16.6	20.62	15.84	<b>– 8</b>	46.04	3.95	+ 8	19	88
Juni 1	8	7	14.6	20.76	15.81	-14	46.04	3.94	+ 4	19	88
2	- 9	+ 6	12.3	+20.89	-15.77	-15	46.04	+3.94	0	19	89
3	- 9	7	9.8	21.03	15.73	-14	46.04	3.94	- 4	19	89
4	<b>–</b> 6	8	8.0	21.17	15.69	-10	46.04	.3.93	- 7	20	89
5	- 2	9	6.6	21.31	15.65	- 3	46.04	3.93	- 8	20	89
6	+ 2	9	5.4	21.44	15.61	+ 4	46.04	3.93	- 9	20	89
7	+ 6	9	4.3	21.58	15.57	+ 9	46.03	3.93	- 8	20	89
8	+ 8	+ 8	3.0	+21.72	-15.53	+14	46.03	+3.93	- 5	20	89
9	+10	7	I,I	21.86	15.48	+16	46.03	3.93	- 2	20	89
10	+9	6	22.7	22.00	15.44	+14	46.03	3.93	+ 2	21	89
11	+ 5	7	20.1	22.14	15.39	+ 9	46.03	3.93	+ 6	21	89
12	0	9	18.0	22.27	15.35	0	46.03	3.93	+ 9	121	89
13	-6	+11	16.5	+22.41	-15.30	-10	46.03	+3.93	+10	21	89

				0 h	Weltz	eit			
Tag	Stern- zeit Green- wich	t	f.	log g	G	log h	, H	log i	1 /
1947	h		C. X. E. S.		h m		h m		
Juni 13	17.4	a 0.4457	+0.434	0.6860	20 23.5	1.3103	12.32.5	0.0973n	-1,251
14	17.4	0.4484	0.445	0.6901	20 26.2	1.3105	12 28.9	0.0477n	1.116
15	17.5	0.4512	0.456	0.6942	20 28.9	1.3106	12 25.4	9.9921n	0.982
16	17.6	0.4539	0.467	0.6984	20 31.5	1.3108	12 21.9	9.9279n	0.847
17	17.6	0.4566	0,479	0.7026	-20 34.0	1.3109	12.18.4	9.8525n	0.712
18	17.7	0.4594	0.490	0.7068	20 36.4	1.3110	12 14.9	9.7612n	0.577
19	17.8	0.4621	+0.501	0.7110	20 38.8	1.3110	12 11.4	9.6454n	-0.442
20	17.8	0.4648	0.512	0.7154	20 41.1	1.3111	12 7.9	9.4857n	0.306
21	17.9	0.4676	0.524	0.7198	20 43.4	1.3111	12 4.4	9.2330n	0.171
. 22	18.0	0.4703	0.535	0.7242	20 45.6	1.3111	12 0.9	8.5441n	-0.035
23	18.0	0.4731	0.547	0.7287	20 47.8	1.3111	11 57.4	9.0043	+0.10f
24	18.1	0.4758	0.558.	0.7332	20 49.9	1.31,11	11 53.9	9.3729	0.236
25	18.2	0.4786	+0.569	0.7377	20 51.9	1.3111	11 50.4	9.5705	+0.372
26	18.2	0.4813	0.580	0.7422	20 53.8	1.3110	11 46.9	9.7050	0.507
27	18.3	0.4840	0.592	0.7467	20 55.7	1.3109	11 43.4	9.8082	0.643
28	18.3	0.4868	0.603	0.7513	20 57.6	1.3108	11 39.9	9.8910	0.778
/ 29	18.4	0.4895	0.614	0,7559	20 59.4	1.3107	11 36.4	9.9600	0.912
30	18.5	0:4922	0.626	0.7604	21 1.1	1.3106	11 32.9	0.0199	1.047
Juli 1	18.5	0.4949	+0.637	0.7650	21 2.8	1.3104	11 29,4	0.0726	+1.182
2	18.6	0.4976	0.648	0.7696	21 4.4	1.3102	11 25.8	0.1193	1.316
3	18.7	0.5004	0.659	0.7742	21 6.0	1.3100	11 22.3	0.1611	1.449
4	18.7	0.5031	0.670	0.7787	21 7.5	1.3098	11 18.8	0.1992	1.582
5	18.8	0.5059	0.681	0.7832	21 9.0	1.3096	11 15.3	0.2343	1.715
6	18.9	0.5086	0.692	0.7877	21 10.4	1.3093,	11 11.8	0.2665	1.847
7	18.9	0.5113	+0.703	0.7922	21 11.8	1.3091	11 8.2	0.2964	+1.979
8	19.0	0.5141	0.714	0.7966	21 13.1	1.3088	11, 4.7	0.3243	2.110
9	19.1	0.5168	0.725	0.8010	21 14.4	1.3085	11 1.2	0.3502.	2.240
-10	19.1	0.5195	0.736.	0.8055	21 15.6	1.3082	10 57.6	0.3747	2.370
II	19.2	0.5223	0.747	0.8099	21 16.8	1.3079	10 54.1	0.3979	2.500
12	19.3	0.5250	0.758	0.8143	21 17.9	1.3075	10 50.5	0.4198	2.629
13	19.3	0.5278	+0.768	0.8186	21 19.0	1.3071	10 47.0	0.4403	+2.756
14	19.4	0.5305	0.779	0.8229	21 20.0	1.3068	.10 43.4	0.4598	2.883
15	19.5	0.5333	0.790	0.8272	21 21.0	1.3064=	10 39.8	0.4786	3.010
16	19.5	0.5360	0.801	0.8314	21 22.0	1.3060	10 36.2	0.4962	3.135
17	19.6	0.5387	0.811	0.8356	21 23.0	1.3055;	10 32.6	0.5132	3,260
18	19.7	0.5415	0.822	0.8398	21 23.9	1.3051	10 29:0	0.5294	3.384
19	19.7	0.5442	+0.832	0.8439	21 24.8	1.3046	10 25.4	0.5449	+3.507
20	19.8	0,5470		0.8480	21 25.6	1.3042	10 21.8	0.5598	3.629
21	19.9	0.5498		0.8520	21 26.4	1.3037	10 18.2	0.5740	3.750
22	19.9	0,5525		0.8560	21 27.2	1.3032	10 14.6	0.5877	3.870
23	20.0	0.5553	0.873	0.8600	21 27.9	1.3027	10 11.0	0.6009	3.989
24	20.1	0.5580	+o.883	0.8640	21 28.6	1.3022	10 7.3	0.6135	+4.107

					Oh Wel	tzei	t				
Tag	1'	g'	G'	Allgemeine Präzession seit 1947.0	- Δψ:	\$Δ ψ'	Mittlere Schiefe	'Δ ε	Δε'	j	k
1947	5 in 0.001	in o.o.	h			in o.or	23° 26′		in 0.01	in .o.	100
Juni 13	÷ 6	+11	16.5	+22.4I	-15.30	-10	46.03	+3.93	+10	21	89
. 14	-12	/12.	15.1	22.55	15.26	-20	46.03	3.94	+ 9	21	89
200 6 15	-17	13	1.3.7	22.69	15.21	-28	46.02	3.94	+ 5	22	89
16	-19	12	12.2	22.82	15.17	-31	46.02	3.94	+ 1	22	89
17	-17	12	10.6	22.96	15.12	-28	46.02	3.95	- 4	22	89
18	-II	II	8.7	23.10	15.08	-19	46,02	3.95	- 9	22	89
: 19	- 3	+11	6.8	+23.23	-15.03	- 6	46.02	+3.96	-11	22	89
20	+ 5	11	4.8	23.37	14.98	+9	46.02	3.96	→1,1	23	89
21	+13	TI	2.8	23.51	14.93	+21	46.02	3.97	<b>— 8</b>	23	89
22	+17	11	0.9	23.64	14.88	+28	46.02	3.98	- 3	23	89
23	+18	12	23.1	23.78	14.84	+29	46.01	3.98	+ 3	23	89
24	+15	12	21.6	23.92	14.79	+25	46.01	3.99	+ 7	24	89
25	+10	+12	20.2	+24.06	-14.74	+16	46.01	+4.00	+10	24	89
26	+ 4	II.	†8.8	24.19	14.69	+ 6	46,01	4.01	+11	24	89
27	- 2	9	17.4	24.33	14.65	- 4	46.01	4.02	+ 9	24	89
28	- 7	7	15.5	24.47	14.60	—1 I	46.01	4.03	:+6	25	89
29	- 9	6	13.0	24.61	14.55	-14	46,01	4.04	+ 2	25	89
30	<b>—</b> 8	6	10.2	24.75	14.50	-13	46.01	4.05	<b>—</b> 3	25	89
Juli - r	- 6	+ 7	8.2	+24.89	-14.46	-1.0	46,00	+4.07	6	25	89
2	- 2	8	6.7	25.02	14.41	- 4	46,00	4.08	<b>→</b> 8	26	89
3	+ 2	9	5.5	25.16	14.37	+ 3	46,00	4.09	- 9	26	89
4	+ 5	9	4.4	25.30	14.33	+ 9	46.00	4.11	<b>–</b> 8	26	89
5	+ 8	8	3.2	25.44	14.29	+14	46.00	4.12	- 6	27	89
, , 6	+10	7	1.6	25.57	14.24	+16	46.00	4.14	- 3	27	89
7	+10	+ 6	23.5	+25.71	-14.20	+16	46.00	+4.15	+ 1	27.	89
8	+ 7	7	20.9	25.85	14.16	+11	46.00	4.17	+ 5	27	89
9	+ 2	8	18.6	25.98	14.12	+ 3	45.99	4.18	+ 8	28	89
10	- 4	, IO	17.0	26.12	14.08	- 7	45.99	4.20	+10.	28	89
ii.	.—IO	II	15.5	26.26	14.04	-17	45.99	4.22	+ 9	28	89
12	-16	12	14.2	26.39	14.00	-26	45.99	4.24	+ 7	28	89
13	-19	+13	12.7	+26.53	-13.96	-31	, 45.99	+4.26	+ 2	29	89
14	-19	13	11.2	26.67	13.92	-31	45.99	4.27	- 3	29	89
13	-1 <u>5</u>	12	9.6	26.81	13.89	-24	45.99	4.29	- 7	29	89
16	- 8	II	7.8	26.94	13.85	—r 3	45.98	4.31	-10	30	88
17	+ 1	11	5.8	27.08	13.82	+ 1	45.98	4.33	—I I	.30	88
18	+ 9	10	, 3.8	27.22	13.78	+15	45.98	4.35	- 9	30	88
19	+15	+1.1	1.7	+27.36	-13.75	+25	45.98	+4.38	<b>—</b> 5	31	88
11.1 20	+17	.11	23.7	27.50.	13.72	+29	45.98	4.40	+ I.	.31	88
11. 21	+16	12	22.1	27.64	:13.69	+27	45.98	4.42	+ 6	31	88
. 22	+1.2	12	20.6	27.77	13.66	+20	45.98	4.44	+10	32	88
23	+ 6	12	19.3	27.91	13.63	+1,0	45.98	4.46	+11	32	88
24	0	+10	17.9	+28.05	-13.60	- 1 ·	45.97	+4.49	+10	32	88

			*	Оъ	Weltz	eit			
Tag	Stern- zeit Green- wich	, t	f	log g	G	log h	Н	log i	i
1947	h		s		h m		h m		
Juli 24	20.1	a 0.5580	+0.883	0.8640	21 28.6	1.3022	10 7.3	0.6135	+4.107
25	20,1	0.5608	0.893	0.8679	21 29.3	1.3016	10 3.7	0.6256	4.223
26	20.2	0.5635	0.903	0.8717	21 30.0	1.3011	10 0.0	0.6373	4.338
27	20.3	0.5662	0.913	0.8754	21 30.6	1.3006	9 56.3	0.6487	4.453
28	20.3	0.5690	0.923	0.8792	21 31.2	1.3000	9.52.6	0.6595	4.566
29	20.4	0.5717	0.932	0.8829	21 31.7	1.2994	9 48.9	0.6700	4.677
30	20.5	0.5744	+0.942	0.8866	21 32.3	1.2989	9 45.2	0.6802	+4.788
31	20.5	0.5772	0.951	0.8902	21 32.8	1.2983	9 41.5	0.6900	4.898
Aug. 1	20.6	0.5799	0.961	0.8938	21 33.3	1.2977	9 37.8	0.6995	5.006
2	20.6	0.5827	0.970	0.8973	21 33.8	1.2971	9 34.0	0.7086	5.112
3	20.7	0.5854	0.979	0.9008	21 34.3	1.2965	9 30.3	0.7174	5.217
4	20.8	0.5882	0.988	0.9042	21 34.7	1.2959	9 26.5	0.7261	5.322
5	20,8	0.5909	+0.998	0.9076	21 35.2	1.2953	9 22.7	0.7343	+5.424
6	20.9	0.5936	1.007	0.9109	21 35.6	1.2947	9 19.0	0.7423	5.524
7	21.0	0.5964	1.016	0.9142	21 36.0	1.2941	9 15.2	0.7500	5.623
8	21.0	0.5991		0.9174	21 36.3	1.2935	9 11.4	0.7575	5.721
9	21.1	0.6018	1.034	0.9206	21 36.7	1.2928	9 7.5	0.7647	5.817
10	21.2	0.6046	1.042	0.9237	21 37.0	1.2922	9 3.7	0.7717	5.912
II	21.2	0.6073	+1.051	0.9269	21 37.4	1.2916	8 59.9	0.7786	+6.006
12	21.3	0.6101	1.059	0.9300	21 37.7	1.2910	8 56.0	0.7851	6.097
13	21.4	0.6128	1.068	0.9330	21 38.0	1.2903	8 52.1	0.7914	6.186
14	21.4	0.6156	1.076	0.9360	21 38.3	1.2897	8 48.2	0.7975	6.274
15	21.5	0.6183	1.085	0.9389	21 38.6	1.2891	8 44.3	0.8035	6.360
16	21.6	0.6210	1.093	0.9417	21 38.9	1.2885	8 40.4	0.8092	6.44
17/	21.6	0.6238	+1.101	0.9446	21 39.2	1.2878	8 36.5	0.8147	+6.52
18.	21.7	0.6265	1.109	0.9474	21 39.4	1.2872	8 32.6	0.8201	6.60
19	21.8	0.6292	1.117	0.9502	21 39.7	1.2866	8 28.6	0.8252	6.68
20	21.8	0.6319	1.125	0.9529	21 40.0	1.2860	8 24.7	0.8302	6.76
21	21.9	0.6346	1.133	0.9556	21 40.3	1.2854	8 20.7	0.8350	6.839
22	22.0	0.6374	1.140	0.9582	21 40.5	1.2848	8 16.7	0.8397	6.91
23	22.0	0.6401	+1.148	0.9608	21 40.7	1.2843	8 12.7	0.8441	+6.98
24	22.1	0.6429	1.155	0.9634	21 40.9	1.2837	8 8.7	0.8484	7.05
25	22,2	0.6456		0.9659	21 41.2	1.2831	8 4.7	0.8526	7.12
26	22.2	0.6483		0.9683	21 41.4	1.2826	8 0.6	0.8565	7.18;
27	22.3	0.6511		0.9707	21 41.7	1.2820	7 56.6	0.8604	7.25
28	22.4	0.6538	1.185	0.9731	21 41.9	1.2815	7 52.5	0.8640	7.312
29	22.4	0.6565	+1.193	0.9755	21 42.1	1.2810	7 48.5	0.8675	+7.37
. 30	22.5	0.6593	1.200	0.9778	21 42.3	1.2805	7 44.4	0.8709	7.42
31	22.6	0.6620		0.9801	21 42.6	1.2800	7 40.3	0.8741	7.484
Sept. 1	22.6	0.6648		0.9823	21 42.8	1.2795	7 36.2	0.8772	7.53
2	22.7	0.6675		0.9845	21 43.0	1.2790	7 32.1	0.8801	7.58
3	22.8	0.6703	+1.228	0.9867	21 43.2	1.2786	7 28.0	0.8829	+7.63

			15		Oh Wel	tzei	t				
Tag	ť	g'	G'	Allgemeine Präzession seit 1947.0	Δψ	Δψ΄	Mittlere Schiefe	Δε	Δε'	j	k
1947	8 in 0.001	in o.or	h	,,	7 ,	in 0.01	23° 26′	"	in o.oz	in o.	100
Juli 24	0	+10	17.9	+28.05	-13.60	I	45.97	+4.49	+10	32	88
25	- 5	8	16.2	28.19	13.58	- 9	45.97	4.51	+ 7	32	87
26	8	6	13.9	28.32	13.55	-13	45.97	4.53	+ 3	33	87
27	- 8	6	10.9	28.46	13.53	-13	45.97	4.56	- 2	33	87
28	6	7	8.5	28,60	13.51	-10	45.97	4.58	<b>— 5</b>	33	87
29	<b>—</b> 3	8	6.9	28.74	13.49	<b>—</b> 5	45.97	4.60	- 8	33	87
30	+ I	+ 9	5.6	+28.88	-13.47	+.2	45.97	+4.63	- 9	34	87
31	+ 6	9	4.5	29.02	13.45	+ 9	45.97	4.65	- 9	34	87
Aug. 1	+ 8	9	3.4	29.15	13.43	+14	45.96	4.68	- 7	34	87
2	+10	8	1.9	29.29	13.41	+17	45.96	4.70	- 4	35	87
.3	+11	7	0.0	29.43	13.40	+17	45.96	4.73	0	35	86
4	+ 8	7	21.7	29.57	13.39	+14	45.96	4.75	+ 4	35	86
. 5	+4	+ 8	19.5	+29.70	-13.38	+ 7	45.96	+4.78	+ 7	35	86
6	1	9	17.6	29.84	13.37	- 2	45.96	4.80	+ 9	36	86
7	8	11	16.1	29.98	13.36	-13	45.96	4.83	+ 9	36	86
8	-14	12	14.7	30.11	13.35	-23	45.96	4.85	+ 8	36	86
9	18	12	13.2	30.25	- 13.35	-29	45.95	4,88	+ 4	36	86
10	-19	13	11.7	30.39	13.34	-32	45.95	4.90	— I	37	86
11	-17	+12	10.2	+30.52	-13.34	-28	45.95	+4.93	- 6	37	85
12	1 I	12	8.5	30.66	13.33	-18	45.95	4.95	- 9	37	85
13	- 3	11	6.7	30.80	13.33	- 5	45.95	4.98	I I	37	85
14	+ 5	11	4.8	30.94	13.33	+ 8	45.95	5.00	-10	38	85
. 15	+12	10	2.6	31.07	13.33	+20	45.95	5.03	6	38	85
16	+16	10	0.5	31.21	13.33	+26	45.94	5.05	— I	38	85
17	+16	+11	22.6	+31.35	-13.34	+26	45.94	+5.08	+ 4	39	85
18	+13	12	21.0	31.49	13.34	+21	45.94	5.10	+ 8	39	85
19	+ 7	12	19.6	31.63	13.35	+12	45.94	5.12	+11	39	- 84
20	+ 1	II	18.2	31.77	13.36	+ 2	45.94	5.15	+11	39	84
21	- 4	9	16.7	31.90	13.37	<b>-7</b>	45.94	5.17	+ 8	39	84
22	- 8	7	14.7	32.04	13.38	-13	45.94	5.20	+ 4	40	84
23	- 9	+ 6	11.9	+32.18	-13.39	-14	45.94	+5.22	0	40	84
24	- 7	6	9.1	32.32	13.41	-12	45.93	5.24	- 4	40	84
25	- 4	\ 8	7.4	32.45	13.42	<b>—</b> 7	45.93	5.26	<b>— 8</b>	40	84
26	+ 1	9	5.8	32.59	13.44	+ 1	45.93	5.29	- 9	41	84
27	+ 5	10	4.7	32.73	13.45	+ 8	45.93	5.31	- 9	41	84
. 28	+ . 8	9	3.5	32.86	13.47	+14	45.93	5-33	- 7	41	83
29	+11	+ 8	2.2	+33.00	-13.49	+18	45.93	+5.35	- 5	41	83
30	+11	7	0.5	33.14	13.51	+18	45.93	5.37	— i	41	83
31	+10	7	22.4	33.27	13.53	+16	45.93	5.39	+ 3	42	83
Sept. 1	+6	7	20.2	33.41	13.55	+10	45.92	5.41	+ 6	42	83,
2.	+ 1	9	18.3	33.55	13.57	+ 2	45.92	5.43	+ 9	42	83
3	5	+10	16.7	+33.60	-13.60	- 9	45.92	+5.45	+ 9	42	83

20-1		TO SEE	recur	iletions,	Stolech	1.7.24			
				0 h	Weltz	eit			
Tag	Stern-	2000			James Land	5.10 (5.00)			\$145 F
	zeit Green-	1	1	log g	G	$\log h$	$H_{v}$	log i	i
1	wich							į i	
1947	h		S		h m		h m		
Sept. 3	22.8	a 0.6703	+1.228	0.9867	21 43.2	1.2786	7 28.0	0.8829	十7.637
4	22.8	0.6730	1,235	0.9888	21 43.4	1.2781	7 23.9	0.8856	7.684
5	22.9	0.6757	1.242	0.9909	21 43.7	1.2777	7 19.7	0.8881	7.728
6	22.9	0.6785	1.249	0.9930	21.43.9	1.2773	7 15.6	0.8905	7.771
7	23.0	0.6812	1.255	0.9950	21 44.2	1.2770	7 11.4	0.8927	7.811
. 8	23.1	0,6839	1.262	0.9970	21 44.4	1.2766	7 7.2	0.8948	7.849
9	23.1	0.6867	+1.268	0.9989	21 44.7	1.2763	7 3.0	0.8968	+7.885
10	23.2	0.6894	1.275	1.0008	21 44.9	1.2759	6 58.8	0.8986	. 7.918
11	23.3	0.6922	1.281	1.0027	21 45.2	1.2756	6 54:7	0.9004	7.950
12	23.3	0.6949	1.288	1.0046	21 45.4	1.2754	6 50.4	0.9019	7.978
13	23.4	0.6977	1.294	1.0064	21 45.7	1.2751	6 46.2	0.9034	8.005
14	23.5	0.7004	1.301	1.0082	21 46.0	1.2749	6 42.0	0.9047	8.029
15	23.5	0.7031	+1.307	1.0100	21 46.3	1.2746	6 37.8	0.9058	+8.051
16	23.6	0.7059	1.314	1.0118	21 46.6	1.2744	6 33.6	0.9069	8.071
17	23.7	0.7086	1.320	1.0135	21 46.9	1.2743	6 29.3	0.9079	8.089
18	23.7	0.7113	1.327	1.0152	21 47.2	1.2741	6 25.1	0.9086	8.103
19	23.8	0.7141	1.333	1.0169	21 47.5	1.2740	6 20.8	0.9093	8,116
20	23.9	0.7168	1.339	1,0186	21 47.8	1.2739	6 16.6	0.9099	8.127
21	23.9	0.7196	+1.345	1.0202	21 48.1	1.2738	6 12.3	0.9104	+8.135
22	0.0	.0.7223	1.352	1.0218	21 48.4	1.2737	6 8.0	0.9106	8.140
23	0.1	0.7251	1.358	1.0234	21 48.8	1.2737	6 3.8	0.9108	8.143
24	0.1	0.7278	1.365	1.0250	21 49.1	1.2737	5 59.5	0.9108	8.144
25	0.2	0.7305	1.371	1.0265	21 49.5	1.2737	5.55.2	0.9108	8.143
26	0.3	0.7333	1.377	1.0281	21 49.9	1.2737	5 51.0	0.9106	8.139
27	0.3	0.7360	+1.383	1.0296	21 50.3	1.2738	5 46.7	0.9103	+8.133
28	0.4	0.7387	1.390	1.0311	21 50.7	1.2739	5 42.4	0.9098	: 8.125
29	0.5	0.7415	1.396	1.0326	21, 51.1	1.2740	5 38.1	0.9092	8.113
0kt. 1	0.5	0.7442	1.402	1.0341	21 51.5	1.2742	5 33.9	0.9085	8.100
Okt. 1	0.6	0.7470	1.409	1.0356	21 51.9	1.2743	5 29.6	0.9076	8.084
	100 miles		50 B B B B B B B B B B B B B B B B B B B	1.0370	21 52.3	1.2745	5 25.3		10 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3	0.7	0.7525	+1.421	1.0384	21 52.8	1.2747	5 21.1	0.9055	+8.045
4	0.8	0.7552	1.427	1.0399	21 53:2	1.2749	5 16.8	0.9043	8.023
5	0.9	0.7579	Company of the Company	1.0413	21 53.7	1.2751	5 12.5	0.9029	7.997
	0.9	0.7634		1.0427	21 54.2	1.2754	5 8.2	0.9015	7.970
7 .8	1.1	0.7661	1.454	1.0441	21 54.7	1.2757:	5 4.0 4 59.7	0.8980	7.939
		100000		(A) (A) (A)	P. C. L. C. S. S.		11 (0.000)		
:9	1.1	0.7688		1.0469	21 55.7	1.2764:	4 55.5	0.8961	+7.872
10	1.2	0.7715		1.0483	21 56.2	1.2767	4 51.2	0.8940	7.835
11.	1.3	0.7770		1.0497	21 56.7	1.2771	4 47.0	0.8919	7.796
13	1.4	0.7798		1.0511	21 57.8	1.2779	4 42.7	0.8871	7.755
14	1.4	0.7825		1.0538	21 58.3	1.2784	4 34.3	0.8843	+7.662
CONTRACTOR OF LAW	Contract of the	2000		1 333	3-0		1 37.0	The second second	By

7					O* Wel	tzeit				75	
Tag	ď	g'	G'	Allgemeine Präzession seit 1947.0	Δψ	Δψ'	Mittlere Schiefe	Δε.	Δε'	i i	k
	Ś	in 0.01	2	P4/100		9/45/4	23° 26′	▶?858°		150	
1947	in o.ooı	STATE OF THE PARTY	."	11	11	in o.oɪ	"	,,,,,,,	in o.or	in o.	478
Sept. 3	- 5 -11	+10	16.7	+33.69	-13.60 13.62	— 9 —19	45.92 45.92	+5.45	+ 9 + 8	42	83
4 5	-16	12	15.1	33.96	13.65	-26	45.92	5.49	+ 5	43	83
6	-18	12	12.2	34.10	13.68	-30	45.92	5.51	+ 1	43	83
7	-17	12	10.6	34.24	13.71	<b>-28</b>	45.92	5.52	- 4	43	83
8	-13	12	9.0	34.38	13.74	-21	45.92	5.54	- 8	:43	83
9	<b>–</b> 6	+11	7.3	+34.52	-13.77	9	45.91	+5.55	-11	44	83
10	+ 2	11	5.5	34.65	13.80	+ 4	45.91	5.57	10	44	83
11	+9	10	3.5	34.79	13.83	+15	45.91	5.59	- 8	44	83
12	+14	10	1.3	34.93	13.86	+23	45.91	5.60	- 3	44	82
13	+15	10	23.2	35.07	13.89	+25	45.91	5.61	+ 2	44	82
14	+13	II	21.4	35.20	13.92	+21	45.91	5.63	+ 7	45	82
15	+ 8	+11	19.9	+35.34	-13.95	+13	45.91	+5.64	+10	45	82
16	+ 2	. 11	18.5	35.48	13.98	+ 4	45.91	5.65	+11.	45	82
17	- 4	9	17.1	35.62	14.02	- 6	45.90	5.66	+ 9	45	82
18	8	8	15.3	35.76	14.05	—I 3.	45.90	5.67	+ 6	45	82
19	- 9	6	12.9	35.90	14.09	-15	45.90	5.68	· + 1	45	82
20	- 9	7	10.0	36.03	14.12	-14	45.90	5.69	- 3	46	82
21	- 5	+ 8	7.8	+36.17	-14.16	- 9	45.90	+5.70	- 7	46	82
1 : 22	— I	9	6.3	36.31	14.19	1 . I	45.90	5.71	- 9	46	82
: 23	+ 4	10	5.0	36.45	14.23	+ 6	45.90	5.72	- 9	46	82
24	+ 8	9	3.8	36.58	: 14.26	+13	45.89	5.72	- 8	46	82
25	+11	9	2.6	36.72	14.30	+18	45.89	5.73	- 6	46	82 82
26	+12	8	0.1	36.86	14.33	+19	45.89	5.74	- 2	47	250
27	+11	+ 7	23.0	+36.99	-14.37	+18	45.89	+5.74	+ 2	47	82
28	+ 8	7	20.9	37.13	14.40	+13	45.89	5.75	+ 5	47	82
29	+ 3	8	,18.9	37.27	14.43	+ 5	45.89	5.75	+ 8	47	82
30	- 3	10	17.2	37.40	14.46	<b>—</b> 5	45.89 45.89	5.75	+9	47	82
Okt. 1	- 9	11	15.7	37.54 37.68	14.50	-15 $-23$	45.88	5.76	+ 6	47	82
	714		14.2	100000000000000000000000000000000000000		200				9350	List of
3	-17	+11	12.6	+37.82	-14.57	-28	45.88	+5.76	+ 2	48	82
4	-17	II	0.11	37.95	14.60	-27	45.88 45.88	5.76	3	48	82
5	-13	. 11	9.3	38.09	14.63	-22 -12	45.88	5.76	- 7 -10	48	82
	- 7 + I	II	7.7	38.37	14.69	+ 1	45.88	5.76	-11	48	82
7 8	+ 8	10	4.0	38.51	14.72	+13	45.88	5.75	- 9	49	82
		100000	10000	+.38.65		200	45.88	2835 WWW		Sales .	82
9	+13	+10	1.9	38.78	-14.75 14.78	+2I +25	45.87	+5.75	- 5. 0	49	83
11	+15	10	23:8	38.92	14.78	+23	45.87	5.75	+ 5	49	83
11	+10	- 11	20.3	39.06	14.83	+16	45.87	5.74	+9	: 49	83
13	+ 4	11	18.8	39.20	14.86	+ 6	45.87	5.74	+11	49	83
	- 2	+10	17.4	The second second second	-14.88	- 4	45.87	+5.73			83
	L-100 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1257 F. D. S.			Carl Strate Contract	Maria Company		4100000	000 mg 350		

		O <sup>b</sup> Weltzeit											
Tag	Stern- zeit Green- wich	t	1	log g	G	log h	Н	log i	i				
1947			30 30 9						1 2 7				
Okt. 14	h 1.4	0.7825	+1.495	1.0538	h m 21 58.3	1.2784	h m 4 34.3	0.8843	+7.662				
15	1.5	0.7852	1.502	1.0552	21 58.9	1.2788	4 34.3	0.8816	7.614				
16	1.6	0.7880	1.509	1.0566	21 59.5	1.2792	4 25.8	0.8786	7.562				
17	1.6	0.7907	1.516	1.0581	22 O.I	1.2797	4 21.6	0.8756	7.509				
18	1.7	0.7934	1.523	1.0595	22 0.6	1.2802	4 17:4	0.8723	7.453				
19	1.8	0.7962	1.530	1,0609	22 1.2	1.2808	4 13.2	0.8689	7.395				
+ 2 - 5 - 5	1.8			1.0623	22 1.8	1.2813	- 45	0.8654	100				
20		0.7989	+1.537 1.545	1.0637	22 2.5	1.2818	4 9.0	0.8617	+7.335 7.272				
22	1.9 2.0	0.8017	1.552	1.0651	22 3.1	1.2824	4 4.0	0.8578	7.208				
23	2.1	0.8072	1.560	1.0665	22 3.7	1.2830	3 56.5	0.8538	7.141				
24	2.1	0.8099	1.568	1.0680	22 4.3	1.2835	3 52.4	0.8495	7.072				
25	2.2	0.8126	1.576	1.0695	22 5.0	1.2841	3 48.2	0.8451	7.000				
26	3,2	0.8154	+1.583	1.0709	22 5.6	1.2847	3 44.1	0.8405	+6.927				
27	2.3	0.8181	1.591	1.0724	22 6.3	1.2853	3 39.9	0.8358	6.851				
28	2.4	0.8208	1.599	1.0739	22 6.9	1.2860	3 35.8	0.8308	6,773				
29	2.4	0.8236	1.607	1.0754	22 7.6	1.2866	3 31.7	0.8257	6.694				
30	2.5	0.8263	1.615	1.0769	22 8.3	1.2872,	3 27.6	0.8203	6.612				
31	2.6	0.8291	1.623	1.0784	22 9.0	1.2878	3 23.5	0.8148	6.528				
Nov. 1	2.6	0.8318	+1.631	1.0800	22 9.7	1.2885	3 19.4	0.8090	+6.441				
, 2	2.7	0.8346	1.640	1.0816	22 10.4	1,2891	3 15.4	0.8030	6.353				
. 3	2.8	0.8373	1.648	1.0831	22 11.1	1.2898	3 11.3	0.7968	6.264				
4	2.8	0.8400	1.657	1.0847	22 11.8	1.2904	3 7.3	0.7904	6.171				
5	2.9	0.8428	1.666	1.0863	22 12.4	1.2911	3 3.2	0.7838	6.078				
6	3.0	0.8455	1.675	1.0880	22 13.1	1.2917	2 59.2	0.7768	5.982				
7	3.1	0.8482	+1.684	1.0896	22 13.8	1.2924	2 55.2	0.7697	+5.884				
8	3.1	0.8510	1.693	1.0913	22 14.5	1.2930	2 51.2	0.7623	5.785				
9	3.2	0.8537	1.702	1.0929	22 15.2	1.2937	2 47.2	0.7546	5.683				
10	3.2	0.8565	1.711	1.0946	22 15.9	1.2943	2 43.2	0.7466	5.579				
II	3.3	0.8592	1.720	1.0963	22 16.6	1,2950	2 39.2	0.7384	5.475				
12	3.3	0.8620	1.730	1.0981	22 17.3	1.2956	2 35.2	0.7298	5.368				
13	3.4	0.8647	+1.739	1.0998	22 18.0	1.2963	2 31.3	0.7210	+5.260				
14	3.5	0.8674	1.749	1.1016	22 18.7	1.2969	2 27.3	0.7118	5.150				
15	3.5	0.8702	1.759	1.1033	22 19.4	1.2975	2 23.4	0.7023	5.038				
16	3.6	0.8729	1.769	1.1051	22 20.1	1.2982	2 19.4	0.6923	4.924				
17	3.7	0.8756	1.778	1.1069	22 20.8	1.2988	2 15.5	0.6821	4.810				
18	3.7	0.8784	1.788	1.1088	22 21.5	1.2994	2 11.6	0.6715	4.694				
19	3.8	0.8811	+1.798	1.1106	22 22.2	1.3000	2 7.7	0.6604	+4.575				
30	3.9	0.8838	1.809	1.1125	22 22.8	1.3006	2 3.8	0.6489	4.456				
31	3.9	0.8865	1.819	1.1144	22 23.5	1.3012	1 59.9	0.6371	4.336				
\ 22	4.0	0.8893	1.829	1.1163	22 24.1	1.3017	1 56.0	0.6246	4.213				
23	4.1	0.8929	1.839	1.1182	22 24.8	1.3023	1 52.2	0.6116	4.089				
24	4.1	0.8947	+1.850	1.1202	22 25.4	1.3028	1 48.3	0.5982	+3.965				

4					Oh Wel	tzei	;				
Tag	1'	g'	G'	Aligemeine Präzession seit 1947.0	Δψ	Δψ΄	Mittlere Schiefe	Δε	Δε'	j	k
1947	s in o.cor	in o.oz	h			in o.or	23° 26′		in o.or	in o.	001
Okt. 14	- 2	+10	17.4	+39.33	-14.88	- 4	45.87	+5.73	+ro	49	83
15	- 7	8	15.8	39.47	14.90	-11	45.87	5.73	+ 7	50	83
16	-10	7	13.6	39.61	14.93	-16	45.87	5.72	+ 3	50	83
17	-10	6	11.0	39.74	14.95	-16	45.87	5.71	- 2	50	83
18	- 7	7	8.6	39.88	14.97	-12	45.86	5.71	- 6	50	83
19	- 3	8	6.9	40.02	14.99	- 5	45.86	5.70	<b>—</b> 8	50	83
20	+ 2	+ 9	5.5	+40.15	-15.01	+ 3	45.86	+5.69	- 9	51	83
.21	+ 6	10	4.3	40.29	15.02	+10	45.86	5.68	- 9	51	83.
22	+10	9	3.1	40.43	15.04	+16	45.86	5.67	- 7	51	84
23	+12	8	1.5	40.57	15.05	+19	45.86	5.66	- 3	51	84
24	+,11	7	23.6	40.70	15.07	+18	45.86	5.65	+ 1	51	84
25	+ 9	7	21.5	40.84	15.08	+14	45.86	5.64	+ 5	51	84
26	+ 4	+ 8	19.3	+40.98	-15.09	+ 7	45.85	+5.63	+ 8	51	84
27	- 1	10	17.6	41.12	15.10	- 2	45.85	5.62	+ 9	52	84
28	8	11	16.1	41.26	15.10	-13	45.85	5.61	+9	52	84
29	-13	II	14.6	41.40	15.11	-22	45.85	5.60	+ 7	52	84
30	-17	11	13.1	41.53	15.11	-28	45.85	5.59	+ 3	52	85
31	-17	11	11.5	41.67	15.12	28	45.85	5.58	<b>— 2</b>	52	85
Nov. 1	-14	+11	9.8	+41.81	-15.12	-23	45.85	+5.57	<b>-</b> 6	52	85
2	- 9	11	1,8	41.95	15.12	-14	45.84	5.56	- 9	53	85
3	— I	I I	6.2	42.08	15.12	- 2	45.84	5.54	-11	\53	85
4	+ 7	11	4.4	42.22	15.11	411	45.84	5.53	-10	53	85
5	+13	10	2.4	42.36	15.11	+21	45.84	5.52	- 6	53	85
6	+16	10	0.4	42.50	15.10	+26	45.84	5.51	— I	53	85
7	+15	+11	22.5	+42.64	-15.09	+25	45.84	+5.49	+ 4	54	86
8	+11	11	20.8	42.78	15.08	+19	45.84	5.48	+ 8	54	86
9	+ 6	11	19.3	42.91	15.07	+ 9	45.84	5.47	+10	54	86
10	0	10	17.9	43.05	15.06	- I	45.83	5.45	+10	54	86
11	- 6	9	16.3	43.19	15.05	-10	45.83	- 5.44	+ 8	55	86
12	- 9	7	14.3	43.33	15.03	15	45.83	5.43	+ 4	55	86
13	-10	+ 6	11.9	+43.46	-15.01	-16	45.83	+5.42	0	55	86
14	- 8	7	9.3	43.60	14.99	-13	45.83	5.40	- 5	55	86
15	- 4	8	7.4	43.74	14.97	- 7	45.83	5.39	- 7	55	87
16	O	9	6.0	43.87	- 14.95	0	45.83	5.38	- 9	56	87
17	+ 5	10	4.7	44.01	14.93	+ 8	45.83	5.37	- 9	56	87
18	+ 8	9	3.5	44.15	14.90	+14	45.82	5.36	- 7	56	87
19	+11	+9	2.1	+44.28	-14.87	+18	45.82	+5.34	- 4	56	87
20	+11	8	0.4	44.42	14.84	+19	45.82	5.33	_ I	57	87
21	+10	7	22,2	44.56	14.81	+16	45.82	5.32	+ 3	57	87
22	+ 6	8	19.9	44.70	14.78	+ 9	45.82	5.31	+ 7	57.	87
23	0	9	18.0	44.83	14.75	0	45.82	5.30	+ 9	57	88
24	- 6	+11	16.5	+44.97	-14.71	-11	45.82	+5.29	+10	58	00

				О в	Weltz	eit			
Tag	Stenn- zeit Green- wich	J-t	f	log g	G	log h	H	log i	i .
								18 18 19	
1947 N	h	a	S	7 3 3 3 3	h m		h m	0	H
Nov. 24	4. I	0.8947	+1.850	1.1202	22 25.4	1.3028	1 48.3	0:5982	+3.965
25	4.2	0.8975	1.861	1.1222	22 26.1	1.3034	1 44.5	0.5842	3.839
The state of the state of	4.3	0.9002	1.872	1.1242	22 26,7	1.3039	1 40.6	0.5695	3.711
27 28	4.3	0.9029	1.882	1.1261	22 27.3	1.3044	1 36.8	0.5542	3.583
	4.4	0.9057	1.893	1.1281	22 27.9	1.3048	1 33.0	0.5382	3.453
29	4.5	0.9084	1.904	1.1301	22 20:5	1.3053	1 29.2	0.5214	3.322
30	4.5	0.9112	+1.915	1.1322	22 29.1	1.3058	1 25.3	0.5038	+3.190
Dez. 1	4.6	0.9139	1.926	1.1342	22 29.7	1.3062	1 21.5	0.4853	3.057
	4.7	0.9167	1.938	1.1362	22 30.2	1.3066	1 17.7	0.4658	2.923
. 3	4.7	0.9194	1.949	1.1383	22 30.8	1.3070	1 13.9	0.4454	2.789
4	4.8	0.9221	1.960	1.1404	22 31.3	1.3074	1 10.2	0.4237	2.653
5	4.9	0.9249	1.971	1.1425	22 31.9	1.3078	I 6.4	0.4007	2.516
44	9			10, 75, 17,		- A			
6	. 4.9	0.9276	+1.983	1,1446	22 32.4	1.3082	1 2.6	0.3762	+2.378
7	5.0	0.9303	1.994	1.1467	22 32.9	1.3085	0 58.8	0.3501	1 2.239
8	5.1	0.9331	2,006	1.1488	22 33.4	1.3088	0 55.0	0,3222	2, 100
. '9	5.1	0.9358	2.017	1.1509	22 33.9	1.3091	,051.3	0.2925	1.961
: 10	5.2	0.9386	2.029	1.1530	22 34.4	1.3094	0 47.5	0.2601	1.820
	5.3	0.9413	2.041	1.1552	22 34.9	1.3097	0 43.8	0.2251	1.679
15,11.									. ,
, 12	5.3	0.9441	+2.053	1.157.4	22 35.3	1.3099	0 40.0	0.1867	+1.537
13	5.4	0.9468	2.064	1.1595	22 35.8	1.3101	0 36.3	0.1446	1.395
14	5.5	0.9495	2.076	1.1617	22 36.2	1,3103	0 32:5	0.0976	1.252
15	. 5.5	0.9523	2.088	1.1638	22 36.6	1.3105	0 28.8	0.0449	1.109
16	5.6	0.9550	2.100	1.1660	22 37.0	1.3106	0 25.0	9.9850	0.966
17	5.7	0.9577	2.111	1.1681	22 37.4	1.3108	0 21.3	9.9149	0.822
18	5.7	0.9605	+2.123	1.1703	22 37.8	1.3109	0 17.5	9.8312	+0.678
19	5.8	0.9632	2.135	1.1725	22 38.2	1.3110	013.8	9.7275	0.534
20	5.8	0.9659	2.147	1.1747	22 38.5	1.3110	0 10.1	9.5899	0.389
21	5.9	0.9686	2.159	1.1768	22 38.9	1.3111	0 6.3	9.3892	0.245
. 22	6.0	0.9714	2.171	1.1790	22,39.2	1.3111	0 2.6	9.0000	+0.100
23	6.1	0.9741	2.183	1.1811	22 39.5	1.3111	23 58.8	8.6532n	-0.045
						1-11-15		14 St.	The state of
24	6.1	0.9768	+2.195	1.1833	22 39.8	1.3111	23 55.1	9.2788n	-0.190
25	6.2	0.9796	2.207	1.1854	22 40.1	1.3110	23 51.4	9.5237n	0.334
26	6.2	0.9823	2.219	1.1876	22 40.4	1.3110	23 47.6	9.6803n	State of the Contract of the C
27	6:3	0.9850	2.231	1.1897	22 40.7	1.3109	23 43.9	9.7945n	
28	6.4	0.9878	2.243	1.1919	22 40.9	1.3108	23 40.1	9.8854n	0.768
29	6.4	0.9905	2.254	1.1940	22 41.1	1.3107	23 36.4	9.9600n	0.912
		Section 1			de la company	4 - 4 - 4		10.4	4
30	6:5	0.9933	+2.266	1.1962	.22 41.3	1.3105	23: 32.6	0.0237n	A STATE OF THE PARTY OF
31	6.6	0.9960	2.278	1.1983	. 22 41.5	1.3104	23 28.9	0.0792n	TO SECULIAR
32	- 6.6	: 0.9988	+2.290	I.2004	22 41.7	1.3102	23 25.1	0.1278n	-1.342

			# 1 TY	9.15 52	0 <sup>ъ</sup> W е 1	tzeit	3 1 1				
Tag	f'	≥ g'	G'	Allgemeine Präzession seit 1947.0	Δψ	Δψ'	Mittlere Schiefe	Δε	Δε	j	k
1947	in o_ooi	in o.o.	h	1000		in o.o.	23° 26′		in o.or.	in o.	7.00
Nov. 24	- 6	+11	16.5	+44.97	-14.71	-11	45.82	+5.29	+10	58	88
25	-12	11	15.0	45.11	14.67	-20	45.82	5.28	. + 8	58	88
26	-17	12	13.6	45.25	14.63	-28	45.81	5.27	+ 5	58	88
27	-18	12	12.0	45.39	14.59	<u></u> -30	45.81	5.26	. 0	58	88
28	-17	12	10.4	45.53	14.56	-27	45.81	5.25	5	. 59	88
29	-11	11	8.6	45.66	14.52	—ı8	45.81	5.25	<b>-</b> 9	. 59	88
	100					41.		10000			
30	- 4	+11	6.8	+45.80	-14.47	- 6	45.81	+5.24	-11	59	88
Dez. 1	+ 5	11,	5.0	45.94	14.43	+ 7	45,81	5.23	-10	59	88 88
2	+11	11	3.0	46.08	14.38	+19	45.81	5.23	- 8 - 3	60	88
3	+16	II	1.0	46.21 46.35	14.34	+26 +27	45.81 45.80	5.22 5.21	- 3   + 3	60	89
4.	+17	11	23.1	46.49	14.29	+27	45.80	5.21	+ 7	61	89
	T14	12	21.5	40.49	14.24	123	45.00	5.21	1		09
6	+ 8.	+12	19.9	+46.62	-14.19	+14	45.80	+5.20	+10	61	89
7	+ 2	II	18.5	46.76	14.14	+ 4	45.80	5.20	+11	бі	89
8	<b>—</b> 4	9	17.0	46.90	14.09	6	45.80	5.20	+ 9	62	89
9	- 8	7	15.1	47.03	14.04	-13	45.80	5.19	+.5	,62	89
.10	-10	6	12.7	47.17	13.99	-16	45.80	5.19	+ 1	62	89
II	- 8	6	.9.9	47.31	13.94	-14	45.79	5.19	- 3	62	89
		14 X X	8 % to	1			4.4.5		300-338		
12	- 5	+ 8	7.8	+47.45	-13.88	- 9	45.79	+5.19	<b>—</b> 7.	63	89
13	- I + 4	9	6.3	47.58	13.83	- 2	45.79	5.19	- 9	63	89 89
14	+ 4 + 8	9	5.0	47.72	13.77	+ 6	45.79	5.19	- 9 - 8	64	89
16	+10	9	3.8	47.86 48.00	13.72	+13	45.79	5.19	- 6 - 6	64	89
17	+10	9	1.0	48.14	13.60	+17	45.79 45.79	5.19	- 2	64	89
-/	111		1.0	.40.14	13.00	119	43./9	3.19	A DOMENT		3939
18	+10	+ 7	22.9	+48.28	-13.54	+17	45.79	+5.20	+:2	65	89
19	+ 7	7	20.6	48.41	13.49	+12	45.78	5.20	+6	65	89
20	+ 2.	9	18.5	48.55	13.43	+ 3	45.78	5.20	+ 8	65	89
21	- 5	10	16.9	, 48.69	13.37	- 7	45.78	5.21	+10	66	89
22	-11	12	15.4	48.83	13.31	-18	45.78	5.22	+ 9.	66	89
23	-17	13	14.0	48.96	13.26	-27.	45.78	5.22	+ 6	66	89
			12.6	10.70	1120	- 20	15.78	al c o a	+ 2	67	80
24	-19	+13	DECK STOP	+49.10	-13.20	-32 -31	45.78	+5.23 5.24	<b>-3</b>	67	89
25 26	-19	13	11.1	49.24	13.14	-31 $-24$	45.78	5.25	— 8·	67	89
27	-r5 - 8	12	9.4	49.52	13.03	-12	45.77	5.26	-ı î	68	89
28	+ 1	11	5.8	49.66	12.97	+ 1.	45.77	5.27	-11	68	89
29	+ 9	11	3.8	49.79	12.91	476	45.77	5.28	-9	. 68	89
			1		25/11/2	117	22000			3/3	100
30			1.7	+49.93	-12.85	+24	45.77	+5.29	, 5	69	89
31		.11	23.7		12.80.	+28	45.77	5.30	+ 1-	69	89
32	+16	+12	22.0	+50.21	-12,74	+26	45-77	+5.31	+ 6	69	89

Weltzeit	t	A	A'	В	B'	С	D
1947		The Editor Edition	in 0.00001		in 0.001		MARKE CARES
Jan. 0.225	-0.0027	-0.31390	-221	-2,659	- 96	- 2.920	+20.222
1.222	+0.0001	0.31016 374	-416	2.674	- 82	3.249	20 161 01
2.219	0.0028	0.30643 373	-554	2.690	- 49	3 576 327	20.095
3.217	0.0055	0.30272 371	-591	2.705	- 2	3.902 326	20.023
4.214	0.0083	0.29902 370	-510	2.721	+ 48	4.228 326	19.945
5.211	0.0003	0.29532 370	-314	2.737	+ 86	4.552 324	19.860
3.211		368	3.4	2./3/ 18	00	4.552 322	19.000 91
6,209	0.0137	-0.29164 366	- 53	-2.755	+105	- 4.874 <sub>321</sub>	+19.769
7.206	0.0165	0.28798 365	+221	2.774	+ 96	5.195 319	19.671
8.203	0.0192	0.28433 363	+443	2.793	+ 64	5.514 318	19.568
9.200	0.0219	0.28070 361	+572	2.813	+ 17	5.832 316	19.458 116
10.198	0.0246	0.27709	+578	2.833	- 34	0.148	19.342
11.195	0.0274	0.27350 359	+478	2.853 21	<b>— 75</b>	6.462 314	19.220
12.192	0.0301	-0.26994	+300	-2.874	-101	→ 6.774	+19.093
13.189	0.0328	0.26639 355	+ 95	2.895	-103	7.083	18.050
14.187	0.0356	0.26286 353	- 90	2.917	84	7.391	18.818
15.184	0.0383	0.25937	-226	2.940 23	<b>— 52</b>	7.696 305	18.673
16.181	0.0410	0.25590 347	-287	2.963	- 12	7.998	18.521
17.178	0.0438	0.25245 345	-280	2.986 23	+ 26	8.297 299	18.364 163
18.176	0.0465	-0.24901	-214	-3.010	+ 59	- 8.594	+18.201
19.173	0.0492	0.24562 339	-106	3.035 25	+ 83	8.880	18.032
20,170	0.0519	0,24226 330	+ 18	3.060 25	+ 90	9.181	17.858 174
21.168	0.0547	0,23892 334	+145	3.085	+ 82	9.469	17.677 186
22,165	0.0574	0.23560 334	+245	3.110 25	+ 61	0.755	17.401
23.162	0.0601	0.23231 329	+304	3.135 25	+ 31	10.038 280	17.300 191
24.159	0.0629	-0.22904	+301	-3.161	- 7	-10.318	+17.104
25.157	0.0656	0.22580 324	+225	3.187	- 46	10:504	16.902
26.154	0.0683	0.22261 319	+ 81	3.213	- 76	10.867 273	16.695
27.151	0.0711	0.21945	-117	3,240 27	- 93	11 136 209	16.484
28.148	0.0738	0.21632 313	-320	3,267	- 89	11.402	16.266
29.146	0.0765	0,21322 307	489	3.294 27	- 63	11.664 258	16.043 223
30.143	0.0793	-0.21015	-578	-3.321	- 21	-11.922	+15.816
31.140	0.0820	0.20712	-554	3.348 27	+ 28	12,176 254	15.584 232
Febr. 1.138	0.0847	0.20412	-419	3.376	+ 74	12.427	15.347 237
2.135	0.0874	0.20113	-191	3 403 27	+ 99	12.674	15.106
3.132	0,0902	0.19816 297	+ 74	3.431	+103	12.916 242	14.860 246
4.129	0.0929	0.19524 288	+319	3.458 27	÷ 80	13.155	14.609 251
5.127	0.0956	-0.19236	+489	-3.486 <sub>27</sub>	+ 39	-13.389	+14.354 261
6,124	0.0984	0.18951	+552	3.513	<b>— 12</b>	13.620	14.093
7.121	0.1011	0.18669	+501	3.540	- 59	13.846	13.829
8.118	0.1038	0.18390	+356	3.568	- 93	14.007	13.561
9.116	0.1066	0.18115	+163	3.595	-106	14.284	13.289
10.113	0.1093	-0.17842	- 34	-3.622	- 97	-14.497	+13.012

Weltzeit	t	A	A'	В	B'	С	D
1947			in				× ,
Febr. 10.113	2	0.78940	0.00001	"	in 0.001	ıi.	"
	0.1093	-0.17842	- 34	-3.622 26.18 26	- 97 - 68	-14.49# <sub>208</sub>	+13.012
11.110	0.1120	0.17573 267	-191	3.648		14.705 204	12.732 284
12.107	0.1147	0.17306 263	-282	3.675	- 31	14.909	12.448
13.105	0.1175	0.17043	-296	3.701	+ 12	15,108	12,160
14.102	0.1202	0.16783	-247	3.728 26	+ 50	15.302	11.869
15.099	0.1229	0.16526 255	-145	3.754 26	+ 78	15.491 184	11.574 300
16.097	0.1257	-0.16271	- 16	-3.780	+.91	-15.675	+11.274 302
17.094	0.1284	0.16019	+115	3,805 25	₩ 88	15.854	10.972
18.091	0.1311	0.15771	+232	3.830	+ 70	16.028 169	10.668 304
19.088	0.1339	0.15520	+307	3.855	+ 44	16.197 165	10.359
20.086	0.1366	0.15283	+328	3.879	+ 6	16,362	10.048 311
21.083	0.1393	0.15042	+276	3.903 24	- 33	16,521 159	9.733 315
22,080	0.1421	-0.14804	+155	-3.927	- 68	-16.675	+ 0.416
23.077	0.1448	0.14569 235	- 19	3.950 23	- 88	16.824	9,096 320
24.075	0.1475	0.14337	-220	3.073	- 90	16.968 144	8.774
25.072	0.1502	0,14107	-403	3.905	- 75	17.105 437	8.440 325
26.069	0.1530	0.13880 227	-525	4.017	- 37	17 230 134	8.121
27.067	0.1557	0.13655 225	-549	4.039 21	+ 10	17.367	7.791 330
28.064	0.1584	-0.13431	-462	-4.060 at	+ 55	-17.489 116	+ 7.450
März 1.061	0.1612	0.13208 223	-275	4.081	+ 90	17.605	7,125 334
2.058	0.1639	0.12988	- 33	4.101 20	+103	17.717 106	6.789 336
3.056	0.1666	0.12771 216	+213	4.121	+ 90	17.823 101	6.450 339
4.053	0.1694	0.12555	+410	4.140 18	+ 59	17.924 94	6.110 340
5.050	0.1721	0.12341	+509	4.158	+ 10	18.018	5.768 343
6.047	0.1748	-0.12130 <sub>210</sub>	+504	-4 176 <sub>17</sub>	- 40	-18.108 84	+ 5.425
7.045	0.1775	0.11920	+394	4.193	- 79	18.192	5.080 345
8.042	0.1802	0.11711	+221	4.209 16	-101	18.271	4.734
9.039	0.1829	0.11502 209	+ 23	4.225	-105	18.344 67	4.387
10,036	0.1857	0.11296 206	-151	4.240	<b>— 81</b>	18.411 61	4.038 349
11.034	0.1885	0.11092	-271	4.255	- 48	18.472 56	3.689 349 351
12.031	0.1912	-0.10887	-314	4.269	- 5	-18.528 51	+ 3.338
13.028	0.1939	0.10683	-287	4.283	+ 34	18 570	2.987 351
14.026	0.1967	0.10480 203	-200	4,296	+ 68	18.624	2.635 352
15.023	0.1994	0.10278 202	- 75	4,308	+ 88	18.663	2.283 352
16.020	0.2021	0.10077	+ 65	4.319	+ 92	18.697	1.930 353
17.017	0.2049	0.09878 201	+193	4.330	+ 80	18.725 22	1.576 354
18,015	0,2076	-0.09677	+288	-4,340	+ 54	-18.747 16	+ 1,222
19.012	0.2103	0.00476	+333	4.349	+ 20	18.763	0.868 354
20.009	0.2130	0.00276	+309	4.358	- 20	18 774	0,514 354
21.006	0.2158	0.09078	+213	4.366	- 58	18 770	+ 0.160 354
22.004	0.2185	0.08878	+ 56	4.373	- 84	18.779	- 0.193 353
23.001	0.2212	-0.08678 200	-142		- 94		- 0.547 354

Weltzeit	t.	A	A'	<b>B</b>	B'	c	y → ' <b>D</b> , ''ÿ
			in				
1947	a .	STATE OF STATE OF	0.00001		in 0.001		ıi .
März 23.001	0.2212	-0.08678	-142	-4:380	94	-18.773	- 0.547 <sub>353</sub>
23.998	0.2240	0.08478	<b>—330</b> .	4.386	<b>— 83</b>	18.762	0.900
24.996	0.2267	0.08278	-472	4.392	<b>— 52</b>	18.745	1.253
25.993.	0.2294	0.08077	-531	4.397	7 8	18.722	1.005
26,990	0.2322	0.07875	<b>-481</b>	4.400	+ 40	18.694	1.950
27.987	0.2349	0.07673	-329	4.403	+ 81	18.661 40	2.307 350
28.985	0.2376	-0.07471	-107	-4.406	+102	-18.621	- 2.657
29.982	0.2403	0.07268 203	+139	4.408	+ 98	18.577	3.006 349
30.979	0.2431	0.07063	+355	4.410	+ 72	18.527	3.354 348
31.976	0.2458	0.06858 205	+488	4.411	+ 29	18.471	3.700
April 1.974	0.2485	0.06652	+516	4.412	- 2I	18.400	4.045 345
2.971	0.2513	0.06444	+437	4.412	- 66	18.343	4.389 344
3.968	0.2540	-0.06235	+281	-4 411	- 94	-18.271	- 4.731
4.965	0.2567	0.06025	+ 88	4.409	-104	18 104 77	5.072 341
5.963	0.2595	0.05814	-102	4.407	- 91	18 112	5.410
6.960	0.2622	0.05601	-243	4.404	- 62	18.024	5.748 33
7.957	0.2649	0.05385 210	-317	4 401 3	- 22	17:032 92	6.084
8.955	0.2677	0.05169	-317	4.398 3	+ .18	17.833 99	6.417 333
9.952	0.2704	-0.04951	-253	-4.394	+ 55	-17.730	- 6.748
10.949	0.2731	0.04731	-139	4.389	+ 80	17.621	7.077
11.946	0.2758	10.04508 223	- 3	4.384	+ 94	17.508 113	7.404 327
12.944	0.2786	0.04284	+135	4-379 6	+ 88	17,390	7.720 325
13.941	0.2813	0.04058	+249	4.373	+ 67	17.267	8 051 322
14.938	0.2840	0.03830	+316	4.366 7	+ 37	17.138	8.371 320
15.935	0.2868	-0.03598	+319	-4.359	- 4	-17.005	- 8.688
16,933.	0.2895	0.03364	+244	4.352 7	- 45	16.866 139	9.002
17.930	0.2922	0.03129	+108	4.344	- 77	16.723 143	9.314
18.927	0.2950	0.02892 237	- 80	4.336	- 92	16.575	0 623
19.925	0.2977	0.02652	-276	4.328	- 91	16.423	9.929
20.922	0.3004	0.02410	-439	4.320	68	16,266 157	10.232 300
21.919	0.3031	-0.02165	-528	-4.311	- 26	-16.104 <sub>166</sub>	-10.532
22.916	0.3059	0.01017	-511	4.302	+ 22	15.038	10.827
23.914	0.3086	0.01666 251	-386	4.292	+ 67	15.767	11.120 293
24.911	0.3113	0.01413	-174	4.283	+ 97	15.502 175	11.410
25.908	0.3141	0.01158 255	+ 78	4.273	+103	15.411	11.696
26.905	0.3168	0.00890 259	+314	4.263 10	+ 86	15.228 183	11.979 279
27.903	0.3195	-0.00637	+482	-4.253	+ 47	-15.040	-12.258
28,900	0.3223	0.00374	+545	4.243	- 3	14.848	12.534
29.897	0.3250	-0.00108	+501	1 222	- 49	14.652	12 806 272
30.895	0.3277	+0:00161	+364	4.221	- 86	14.451	13 073
Mai 1.892	0.3305	0.00433	+171	4.210	-101	14.247	13 338 203
2.889	0.3332	+0.00709	- 25		- 99	-14.038 209	-13:598 260

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## Reduktionsgrößen 1947

Weltzeit	ť	A	A'	В	B'	С	D
1947	а		in 0.00001		in 0.001		
Mai 2.889	0.3332	+0.00709	- 25	-4.199 <u> </u>	- 99	 14.038	-13.598
3.886	0.3359	0.00088 279	-192	4.180	- 74	13.826 212	13.854
4.884	0.3386	0.01268	-293	4.178	- 37	13.600 217	14.106 252
5.881	0.3414	0.01551	-320	4.168	+ 3	13.388 221	14.355
6.878	0.3441	0.01838 287	-283	4.157	+ 41	13.164 224	14.500
7.875	0.3468	0.02127	-188	4.146	+ 71	12.037	14.839
	27 1 7 7 18	291		11	983 W.	231	235
8.873	0.3496	+0.02418	- 60	-4.135	+ 89	-12.706	-15.074 <sub>231</sub>
9.870	0.3523	0.02712	+ 76	4.124	+ 91	12.472	15.305
10.867	0.3550	0.03010	+200	4.113	+ 76	12.234	15.531
11.864	0.3578	0.03311	+286	4.103	+ 48	11.993	15.753 217
12.862	0.3605	ó.03613 304	+304	4.093	+ 12	11.748	15.970
13.859	0.3632	0.03917	+271	4.083	- 29	11.500	10.183
14.856	0.3659	+0.04225	+157	-4.073 <sub>10</sub>	65	-11.249 <sub>254</sub>	-16.391
15.854	0.3687	0.04530	<b>— 18</b>	4.063	- 91	10.995	16.595
16.851	0.3714	0.04850	-225	4.053	- 96	10.738	16.795
17.848	0.3741	0.05100	-414	4.043	<b>— 82</b>	10.477	16.988
18.845	0.3769	0.05485	-541	4.034	- 44	10.215	17.177
19.843	0.3796	0.05807 324	<b>-567</b>	4.026	+ 3	9.950 268	17.361
20.840	0.3823	+0.06131	-477	-4.017 g	+ 51	- 9.682	-17.540
21.837	0.3851	0.06457 328	-284	4.009	+ 90	9.411	17.714 169
22.834	0.3878	0.06785 330	- 25	4.001	+107	9.138	17.883
23.832	0.3905	0.07115	+239	3.993	+ 98	8.802	18.048
24.829	0.3933	0.07447 335	+450	3.986	+ 66	8.584	18.207
25.826	0.3960	0.07782 333	+566	3.979 7	+ 18	8.304 283	18.361
26.824	0.3987	+0.08119	+564	-3.972	<b>— 34</b>	- 8.021	-18,509
27.821	0.4014	0.08459 340	+454	3.965 7	- 74	7.736 285	18.653
28.818	0.4042	0.08800 341	+274	3.050	-100	7.440	18.790
29.815	0.4069	0.09143 343	+ 68	3.954	-103	7.160 289	18.923
30.813	0.4096	0.00488 345	-118	3,949	- 85	6.870	19.051
31.810	0.4124	0.09834 349	-248	3.945	<b>— 52</b>	6.578 292	19.174 117
Juni 1.807	0.4151	+0.10183	-302	-3.941	- 10	6 283	-19.201
2.804	0.4178	0.10535	-286	3.938	+ 30	5.087	10.403
3.802	0.4206	0.10888 353	-209	3.035	+ 62	5.680	10,500
4.799	0.4233	0,11241 353	- 94	3.033	+ 82	5,301 298	10.600
5.796		0.11505 354	+ 38	3.931	+ 90	E 000 301	10,704 95
6.793	0.4287	0.11951 356	+162	3.929	+ 82	4.788 302	19.794 84
7.791	0.4315	+0.12308	+260	-3.928	+ 59	- 4.484	-19.878
8.788	0.4342	0.12665 357	+310	3,928	+ 28	4.180	19.957
9.785	0.4369	0 13025 300	+293	3.929	— r3	3.875	20.030
10.783	0.4397	0 13387	+208	3,930	- 53	3,560	20.007
11.780	0.4424	0.13740	+ 49	3.031	<b>— 82</b>	2 261 300	20.150
12.777	THE RESERVE OF THE PARTY OF THE	+0.14112	-1.52	The second secon	- 97	300	-20.215
THE RESERVE OF THE	A CONTRACTOR OF THE PARTY OF TH		Brille W.	The state of the s	163 41 1	200 1 P2 3	THE PRINTED IN

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Weltzeit	t	Α.	A'	В	B'	. C	D
1947	а	3.000	in 0.00001		in o	"	
Juni 12.777	0.4451	+0.14112	-152	-3.932	- 97	-2.053	-20.215
13.774	0.4479	0 14475 303	-363	3.934	- 90	2.644	20.266 51
14.772	0.4506	0.14838 303	-531	3.937	- 64	2.335	20,311 45
15.769	0.4533	0 15202 305	-612	3.941	- 19	2.025	20.351
16.766	0.4561	0.15560 300	-574	3.945	+ 31	1.714	20.385 34
17.763	0.4588	0.15934 366	-420	3.949 5	+ 78	1.403 311	20.413
18.761	0.4615	+0.16300	-176	-3.954	+104	-1:092	-20.436
19.758	0.4642	0.16667 367	+102	3 060	+108	0.781 311	20,452
20.755	0.4670	0.17034	+358	3,966	+ 83	0.460	20.463
21.753	0.4697	0 17401 307	+531	3.973	+ 41	-0.157 312	20.460
22.750	0.4724	0.17768 367	+589	3.980 7	- 12	+0.155	20.469
23.747	0.4752	0.18134 366 367	+529	3.988	<u>- 62</u>	0.467 312	20.464 5
24.744	0.4779	+0.18501	+372	-3.997 10	- 96	+0.779	20.453
25.742	0.4806	0.18867 366	+170	4.007	-106	1.090 311	20.436 23
26.739	0.4834	0.19233 366	- 32	4.017	- 96	1.401	20.413 28
27.736	0.4861	0.19599 365	-189	4.027	<b>- 65</b>	1.712	20.385
28.733	0.4888	0.19964	-271	4.038	- 25	2.022	20.351 39
29.731	0.4915	0.20328 364	-275	4.050	+ 17	2.332 309	20.312 45
30.728	0.4943	+0.20692	-215	-4.062	+ 52	+2.641	20,267
Juli 1.725	0.4970	0.21054 362	-109	4.074	+ 78	2.949 307	20.216 51
2.722	0.4997	0.21410	+ 17	4.087	+ 90	3.250	20,160
3.720	0.5025	0.21777 359	+146	4.101	+ 83	3.502	20.098 67
4.717	0.5052	0.22136 359	+250	4.115	+ 69	3.867 305	20.031
5.714	0.5079	0.22495 359	+313	4.130 16	+ 40	4.172 304	19.958 78
6.712	0.5107	+0.22854 356	+319	-4.146 <sub>16</sub>	+ 4	+4.476	19.880 <sub>83</sub>
7.709	0.5134	0.23210	+257	4.162	<b>—</b> 36	4.778 301	19.797
8.706	0.5161	0.23504	+125	4.178	<b>— 71</b>	5.079 298	19.708
9.703	0.5189	0.23918 354	- 6I	4.195	- 92	5.377 208	19.613 95
10.701	0.5216	0.24271	-275	4.212	- 95	5.675 296	19.512
11.698	0.5243	0.24622 350	-472	4.230	- 76	5.971 295	19.407
12.695	0.5270	+0.24972	-604	-4.249 <sub>18</sub>	<b>— 37</b>	+6.266	-19.297
13.692	0.5298	0.25320	-630	4.267	+ 9	6.558	19.181
14.690	0.5325	0.25665 345	<b>—538</b>	4.286	+ 60	6.849	19.060
15.687	0.5352	0.20009	-337	4.306	+ 96	7.139 288	18.933
16.684		0.20351	- 67	4.326	+108	7.427 285	18.801
17.682	0.5407	0.26691 338	+214	4.346 21	+ 98	7.712 284	18.665
18.679	0.5434	+0.27029	+433	-4.367	+ 62	+7.996 281	-18.522
19.676	0.5462	0.27366 337	+556	4.388	+ 11	8.277	18.375
20.673	0.5489	0.27700 334	+554	4.410 22	-,41	8.556 276	18.223
21.671	0.5516	0.28032 332	+440	4.432 22	- 84	8.832	18.065
22,668	0.5543	0.28362 330	+254	4.454	-107	9.106 274	17.902 167
23.665	0.5571	+0.28688 326	+ 48	-4.476	-104	+9.378 272	-17.735

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We	eltzeit	t	A	A'	В	B'	С	D
19	947	а		in 0.00001	"	in 0.001	"	"
Juli	23.665	0.5571	+0.28688	+ 48	-4.476	-104	+ 0.378	-T7.735
	24.662	0.5598	0.20012	-131	4.499	81	0.647	17.563
	25.660	0.5625	0.29335	-241	4.523 24	- 42	9.914	17.385 170
	26.657	0.5653	0.29656	-271	4.547	+ 1	10.178 261	17.203
	27.654	0.5680	0.29974	-229	4.570 23	+ 41	10.439	17.016
1	28.651	0.5707	0.30288 314	-127	4.594 24	+ 71	10.696 257	16.824 196
	29.649	0.5735	+0.30601	+ 1	-4.618	+ 87	+10.952	-16.628
	30.646	0.5762	0.30013	+132	4.642	+ 87	11.205	16.427 201
	31.643	0.5789	0.31221	+246	4.666 24	+ 74	11.454	16.222 205
Aug.	1.641	0.5817	0.31526 305	+320	4.691 25	+ 49	11.700	16.012 210
7520	2.638	0.5844	0.31828 302	+345	4.715	+ 15	11.943	15.798 214
	3.635	0.5871	0.32127 298	+305	4.740 25	- 22	12.183	15.578 223
	4.632	0.5898	+0.32425	+198	-4.765	<b>—</b> 58	+12.420	—I 5.355 <sub>228</sub>
	5.630	0.5926	0.32721	+ 33	4.790 25	- 85	12.653 233	15.127
	6.627	0.5953	0.33013	-172	4.815 25	<b>- 95</b>	12.882	14.895 236
	7.624	0.5980	0.33302	-378	4.840 25	- 86	13.108	14.659 240
	8.621	0.6008	0.33589 284	-540	4.865 25	<b>— 54</b>	13.331 218	14.419
	9.619	0.6035	0.33873 282	-619	4.890 25	12	13.549 215	14.175
	10,616	0.6062	+0.34155	-590	-4.915	+ 39	+13.764	-13.926
	11.613	0.6090	0 24424 479	-444	4.940 25	+ 82	13.976	13.673 256
	12.611	0.6117	0.34710	-212	4.965 25	+105	14.184	13.417 261
	13.608	0.6144	0.34982	+ 60	4.991	+108	14.388	13.156
	14.605	0.6171	0.35252 267	+309	5.016 25	+ 79	14.587	12,892
	15.602	0.6199	0.35519 265	+475	5.040 24	+ 36	14.783	12,624 271
	16.600	0.6226	+0.35784	+531	-5.064	- 20	+14.975 187	-12.353 <sub>275</sub>
	17.597	0.6253	0.36047	+467	5.088 24	<b>— 69</b>	15.162	12.078 278
	18.594	0,6281	0 26208	+313	5.113 25	-101	15.346	11.800 281
	19.591	0.6308	0.36566	+111	5.137	-110	15.524	11.519
	20.589	0.6335	0.36821 255	- 80	5.160 23	- 94	15.099	11.234 288
	21.586	0.6363	0.37073 249	-220	5.183 24	— 60	15.870 166	10.946
	22.583	0,6390	+0.37322	-281	-5.207 <sub>23</sub>	<b>– 16</b>	+16.036	-10.654 <sub>295</sub>
	23.581	0.6417	0.37569 245	-256	5.230 23	+ 27	16.198	10.359
	24.578	0.6445	0.37814	-168	5.253	+ 63	10.355	10.000
	25.575	0.6472	0.38058	- 38	5.270	+ 86	10,508	9.759
	26.572		0.38300	+102	5.298	+ 90	10,050	9.456 306
	27.570	0.6526	0.38539	+233	5.320 21	+ 81	16,800	9.150
	28.567	0.6554	+0.38774	+325	-5.34I <sub>21</sub>	+ 59	+16.938	- 8.841 <sub>312</sub>
	29.564	0.6581	0.39006 232	+367	5.362	+,26	17.072	8.529
	30.561	0.6608	0.39237	+347	5.382	- 10	17.201	8,215
	31.559	0.6636	0.39467	+260	5.402	- 47	17.325	7.898
Sept	1.556		0.39695	+116	5.422	- 77	17.445	7.579
	2.553	0.6690	+0.39921	- 74	-5.441	- 91	+17.560	- 7.258 <sup>321</sup>

Weltzeit	t	A	A'	В	B'	С	D
1947	а		1D 0.00001		in 0,001	",	9-7-9-7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
Sept. 2.553	0.6690	+0.39921	<b>- 74</b>	-5.44I	- 91	+17.560	-7.258
3.550	0.6718	0.40145	-277	5.460 19	- 89	17.670	6.03.1 324
4.548	0.6745	0 40267 222	-457	5.478	- 67	17.775	6,608 320
5-545	0.6772	0.40587	-570	5.406 10	- 28	17.875	6,281 327
6.542	0.6799	0.40806 219	-587	5.514	+ 18	17.968 93	5.952 329
7.540	0.6827	0.41023	-491	5.531 16	+ 66	18.058 90	5.620 332 334
8.537	0.6854	+0.41239	-300	-5.547	+ 97	+18.143 80	-5.286
9.534	0.6881	0.41454	<b>— 50</b>	5.562 15	+107	18.223	4.951
10.531	0.6909	0.41667	+202	5.577	+ 94	18.297 74	4.614 337
11.529	0.6936	0.41879	+394	5.591	+ 56	18.366	4.270
12.526	0,6963	0.42091	+493	5.005	+ 6	18.430	3.936 340
13.523	0.6991	0.42301 208	+475	5.619 13	- 46	18.488 53	3.595 341
14.520	0.7018	+0.42509 208	+351	· -5.632,	- 90	+18.541	-3.253
15.518	0.7045	0.42717	+167	5.644	-108	18.589	2.910 343
16.515	0.7073	0.42924	<b>— 32</b>	5.656	-104	18.632 43	2.566 344
17.512	0.7100	0.43131	-197	5.667	<b>— 76</b>	18.669 37	2.221 345
18.510	0.7127	.0.43338	-289	5.678	- 36	18.701 32	1.875
19.507	0.7154	0.43543 205	-297	5.687	+ 9	18.728 20	1.528 347
20.504	0.7182	+0.43748	-229	-5.696	+ 50	+18.748	-1.181
21,501	0.7209	0.43953	-101	5.705 8	+ 80	18.764	0.833 348
22.499	0.7236	0.44158	+ 47	5.713 7	+ 9.3	18.774	0.485
23.496	0.7264	0.44362	+190	5.720	+ 88	18.779	-0.136 <sup>349</sup>
24.493	0.7291	0.44566	+306	5.727 6	+ 69	18.779	+0.213 349
25.490	0.7318	0.44770 205	+369	5.733	+ 39	18.773	0.562 350
26.488	0.7346	+0.44975	+373	-5.738	+ 3	+18.762	+0.912
27.485	0.7373	0.45180	+308	5.743 5	<b>— 36</b>	18.745	1.261 349
28.482	0.7400	0.45386	+181	5.748	- 69	18.722	1.610 349
29.479	0.7427	0.45592 206	+ 4	5.752 4	- 90	18.694	1.950
30.477	0.7455	0.45798	-194	5.754	- 93	19,001	2.300
Okt. 1.474	0.7482	0.46005	<b>-383</b>	5.756 <sub>1</sub>	<b>- 79</b>	18.622	2.654 347
2.471	0.7509	+0.46212	-518	-5.757	- 43	+18.578	+3.001
3.469	0.7537	0.46421	-564	5.758	0	18.528 50	3.347
4.466	0.7564	0.46632	-508	5.759	+ 49	18.473 55	3.692 345
5.463	0.7591	0.46844	-349	5.759	+ 87	18.411	4.037
6.460	0.7619	0.47056	-122	5.758	+107	18.345	4.381 344
7.458	0.7646	0147270 214	+128	5.757	+102	18.273 77	4.724 343
8.455	0.7673	+0.47484 216	+339	-5.755	+ 72	+18.196	+5.066
9.452	0.7701	0.47700 219	+470	5.752 3	+ 25	18.114 88	5.406
10.449	0.7728	0.47919	+490	5.748 4	- 28	18.026	5.744 33 <sup>8</sup>
11.447	0.7755	0.48139	+401	5.744	<b>—</b> 73	17.933 93	6.081 337
12.444	0.7782	0.48359	+231	5.740	-102	17.833 104	6.417
13.441	0.7810	+0.485823	+ 26	<b>-5.735</b>	-107	+17.729	+6.751 334

für 12h Sternzeit Greenwich

We	ltzeit	t.	А	A'	В	B'	С	D
	947			in		"		
	A STATE OF THE PARTY.	a = 0 = 0	- 10 10 70 7	0.00001	"	in 0.001	"	+ 6.751
OKO.	13.441	0.7810	+0.48582	+ 26	-5.735 <sub>5</sub>	-107	+17.729	
	14.439	0.7837	0.48808 227	-155	5.730 6	— 89 — 55	17.620	7.083 330
	15.436	0.7864	0.49035	-279	5.724 6	23	17.505	7.413 328
	16.433	0.7892	0.49264	-324	5.718	— II	17.385	7.741
	17.430	0.7919	0.49495	-294	5.711 8	+ 34	17.260	8.067 324
	18.428	0.7946	0.49729 236	-174	5.703 8	+ 69	17.129	8.391 322
	19.425	0.7974	+0.49965	- 28	-5.695	+ 91	+16.994	+ 8.713
	20.422	0.8001	0.50204	+125	5.080	+ 92	16.853	9.032
	21.419	0.8028	0.50445	+262	5.678	+ 79	16.707	9.349
	22.417	0.8055	0.50688 243	+351	5.669	+ 53	10.550	9.003
	23.414	0.8083	0,50934	+3.80	5.660	+ 16	10.400	9.974 308
	24.411	0.8110	0.51182	+341	5,650	- 23	16.239 166	10.282 306
	25.408	0.8137	+0.51434	+235	-5.640 <sub>10</sub>	- 59	+16.073	+10.588
	26.406	0.8165	0.51689 255	+ 69	5.630	<b>— 86</b>	15.902	10.891
	27.403	0.8192	0.51946 257	-132	5.619	- 94	15.726 181	11.189
Section 1	28.400	0.8219	0.52200	-328	5.608	- 87	15.545 186	11.485
	29.398	0.8247	0.52469	-485	5.597	- 59	15.359	11.778 289
	30.395	0.8274	0.52734 268	<b>-563</b>	5.585 12	<b>— 15</b>	15.169 194	12.067 286
1	31.392	0.8301	+0.53002	-539	-5.574	+ 32	+14.975	+12.353
Nov.	1.389	0.8329	0.53273	-407	5.562	+ 77	14.775	12.635
	2.387	0.8356	0.53548 275	-192	5.550	+105	14.571	12.014
	3.384	0.8383	0.53827	+ 62	5.537	+106	14.362	13.189 275
	4.381	0.8410	0.54108	+298	5.525	+ 85	14.149	13.460
	5.378	0.8438	0.54392 287	+459	5.513 13	+ 44	13.932 223	13.727 264
	6.376	0.8465	+0.54679	+519	-5.500 <sub>13</sub>	- 8	+13.709 226	+13.991
	7.373	0.8492	0.54970	+462	5.487	<b>— 58</b>	13.483	14.250
	8.370	0.8520	0.55264 294	+313	5.474	- 93	13.252	14.504 250
	9.368	0.8547	0.55561 297	+116	5.461	-107	13.018 234	14.754 246
	10.365	0.8574	0.55861 300	- 84	5.448	<b>- 98</b>	12.779	15,000
	11.362	0.8602	0.56163 302	-240	5.435	- 68	12.537 247	15.241 237
	12.359	0.8629	+0.56469	-307	-5.422	- 25	+12.290	+15.478
	13.357	0.8656	0.56779 310	-309	5.410	+ 17	12.039 255	15.710
	14.354	0.8683	0.57091 312	-230	5.398	+ 56	11.784 258	15.038
	15.351	0.8711	0.57407	- 95	5.387	+ 84	11.526 262	16.161 223
	16.348	0.8738	0.577.27	+ 56	5.375	+ 93	11.264	16.378
	17.346	0.8765	0.58051 325	+202	5.363	+ 86	10.999 269	16.591 208
	18.343	0.8793	+0.58376	+311	-5.351	'+ 65	+10.730	+16.799
	19.340	0.8820	0.58704	+369	5.340	+ 32	10.458 272	7.7.000
4.0	20.337	0.8847	0.59036 332	+358	5,320	- 7	10.182	17,200
	21.335	0.8875	0.59371 335	+277	5.318	<b>— 45</b>	0 003 279	17 303 193
	22.332	0.8902	0.59708 337	+126	5.308	- 76	0 622	17 580
	23.329	0.8929	+0.60047 339	- 62	-5.298	- 95	+ 9.337	+17.762 182

für 12h Sternzeit Greenwich

Weltzeit	t	A	A'	В	B'	С	D
1947	а	50.405 (SV)	in 0.00001	F 11	in 0.001	,,	,,
Nov. 23.329	0.8929	+0.60047	- 62	-5.298	- 95	+0 337	+17.762
24.327	0.8957	0.60280 342	-276	5,288	<b>- 95</b>	0.040	17.937
25.324	0.8984	0.60735 340	-458	5,278 10	<b>—</b> .73	8.758 291	18.108 171
26.321	0.9011	0.61083 348	-577	5.260	<b>—</b> 34	8.464 294	18.273
27.318	0.9038	0.61434 351	-593	5,261	+ 14	8.167 297	18.433
28.316	0.9066	0.61787 353	-495	5.252 8	+ 61	7.868 299	18.587
29.313	0.9093	+0.62143	-298	5.244 _	+ 96	+7.566	+18.735
30.310	0.9120	0 62501	- 41	5.237	+110	7.261 305	18.878 143
Dez. 1.307	0.9148	0.62862 361	+224	5.230 7	+ 98	6.955	19.014
2.305	0.9175	0.63225 363	+430	5.223	+ 63	6.646 309	19.145
3.302	0.9202	0.63590 365	+539	5.217	+ 12	6.335	19.270
4.299	0.9230	0.63957 369	+527	5.212 5	<b>— 40</b>	6.022 313	19.389 113
5.297	0.9257	+0.64326	+410	-5.207	- 83	+5.707	+19.502
6.294	0.9284	0.64697 371	+219	5.202	-107	5.390 317	19.611
7.291	0.9311	0.65070 373	+ 8	5.198 4	-104	5.071	19.710 99
8.288	0.9339	0.65444	-169	5.195	- 80	4.750 321	19.804 94
9.286	0.9366	0.65820 376	-280	5.192	- 41	4.428 322	19.893
10.283	0.9393	0.66198 378	-306	5.190 2	+ 2	4.105 323 325	19.975 76
11,280	0.9421	+0.66577	-251	-5.189	+ 44	+3.780	+20.051
12.277	0.9448	0.66057	-135	5.188	+ 74	3.454	20.121 70
13.275	0.9475	0.67338	+ 9	5.188	+ 89	3.127	20.185
14.272	0.9503	0.67721 383	+156	5.189	+ 89	2.799	20.241
15.269	0.9530	0.68105	+277	5.190	+ 73	2.470	20.292 51
16.267	0.9557	0.68489 385	+350	5.192	+ 45	2.139 331	20.337 45
17.264	0.9585	+0.68874 386	+366	-5.195	+ 9	+1.808	+20.375
18.261	0.9612	0.69260 387	+313	5.198 3	- 31	1.477	20.407 32
19.258	0.9639	0.69647 386	+193	5.202 4	<b>–</b> 66	1.145 332	20.432 25
20.256	0.9666	0.70033 387	+ 11	5.207 5	- 89	0.813	20,450
21.253	0.9694	0.70420	-200	5.212 6	<b>- 98</b>	0.480	20.463 6
22.250	0.9721	0.70807 388	<b>-408</b>	5.218 7	- 84	+0.147 333	20.469
23.247	0.9748	+0.71195 388	<b>-568</b>	-5.225	<b>-</b> ′ 54	-0.186	+20.469
24.245	0.9776	0.71583 388	635	5.232	- 8	0.518	20,402
25.242	0.9803	0.71971 387	-592	5.240	+ 42	0.851	20.449
26.239	0.9830	0.72358	-432	5.249	+ 85	1.184	20.429
27.236	0.9858	0.72745	-187	5.258	+110	1.510	20.403
28.234	0.9885	0.73131 386	+ 91	5.268	+109	1.848 332	20.371 39
29.231	0.9912	+0.73517 385	+343	-5.279	+ 82	-2.179 <sub>331</sub>	+20.332
30.228	0.9939	0.73902	+510	5.291	+ 36	2.510	20.287
31.226	0.9967	0.74280	+556	5.303	- 18	2.840	20.235
32.223	0.9994	+0.74669	+485	-5.315	- 69	-3.168	+20.176

für 12h Sternzeit Greenwich

Weltz	zeit	1	log A	log B	log C	log D	E
194	7	`a	D. F. Rain			- 24, 4-01-28	
Jan.	0.2	-0.0027	9.49679n	0.42472n	0.46538n	1.30582	-0.0025
	10.2	+0.0246	9.44262n	0.45225n	0.78873n	1.28650	25
	20.2	0.0519	9.38428n	0.485721	0.96289n	1.25183	25
	30.1	0.0793	9.32253n	0.521271	1.07635n	1.19910	25
Febr.	9.1	0.1066	9.25804n	0.55570n	1.15485n	1.12349	25
1001.			91-30-4	0,555,011	-11-5,4-5%	-11-549	
	19.1	0.1339	9.19106n	0.58602n	1.20943n	1.01532	-0,0025
März	I.I	0.1612	9.12084n	0.610771	1.24564n	0.85278	25
	11.0	0.1885	9.04501n	0.62890n	1.26651n	0.56691	24
	21.0	0.2158	8.95799n	0.64008n	1.27367n	9.20412	24
	31.0	0.2431	8.84899n	0.64444n	1.26781n	0.52556n	24
Ammil		0.0504	8 60 160 11	0.64086#	7.040=-4	0 800184	0.0004
April	10.0	0.2704	8.69469n	0.64286n	1.24871n	0.82918n	-0.0024
	19.9	0.2977	8.42357n	0.63629n	1.21545n	0.99691n	24
M .	29.9	0.3250	7.03342n	0.62655n	1.16590n	1.10741n	24
Mai	9.9	0.3523	8.43329	0.61532n	1.09594n	1.18483n	24
	19.8	0.3796	8.76395	0.60487n	0.99782n	1.23957n	24
	29.8	0,4069	8.96109	0.59704n	0.85491n	1.27699n	-0.0024
Juni	8.8	0.4342	9.10261	0.59417n	0.62118n	1.30010n	24
	18.8	0.4615	9.21219	0.59704n	0.038221	1.31040n	23
	28.7	0.4888	9.30025	0.60617n	0.30578	1.30859n	23
Juli	8.7	0.5161	9.37225	0.620971	0.70578	1.29464n	23
	18.7	0.5434	9.43183	0.64018n	0.90287	1.26769n	-0.0023
	28.7	0.5707	9.43103	0.66219n	1.02922	1.225931	23
Aug.	7.6	0.5980	9.40127	0.68485n	1.11754	1.16610n	23
Aug.	17.6	0.5980	9.55687	0.70655n	1.11/34	1.08200n	23
	27.6	0.6526	9.58590	0.725911	1.22531	0.96142n	23
<b>a</b>							
Sept.	6.5	0.6799	9.61072	0.74147n	1.25450	0.77466n	-0.0022
	16.5	0.7073	9.63270	0.75251n	1.27026	0.40926n	22
0.1	26.5	0.7346	9.65297	0.75876n	1.27328	9.95999	22
Okt.	6.5	0.7619	9.67262	0.76027n	1.26352	0.64157	22
	16.4	0.7892	9.69253	0.75724n	1.24017	0.88880	22
	26.4	0.8165	9.71340	0.75051n	1.20145	1.03707	-0.0022
Nov.	5.4	0.8438	9.73554	0.74139n	1.14401	1.13758	22
	15.4	0.8711	9.75896	0.73135n	1.06168	1.20847	21
	25.3	0.8984	9.78344	0.72247n	0.94240	1.25787	21
Dez.	5.3	0.9257	9.80839	0.71659n	0.75641	1.29008	21
	15.3	0.9530	9.83318	0.71517n	0.39270	1.30732	-0.0021
	25.2	0.9803	9.85716	0.719331	9.92993n	1.31067	21
	35.2	1.0076	9.87974	0.72900n	0.61794n	1.30025	-0.0021

Übertragung mittlerer Sternörter von dem Äquinoktium  $t_1$  auf  $t_2 = 1947.0$ 

100000000000000000000000000000000000000					100
$n''(t_2-t_1)$	$\log n^{\rm s}(t_2-t_1) \qquad \log$	$n''(t_2-t_1)$	$n^{s}(t_{2}-t_{1})$	$m^{s}(t_{2}-t_{1})$	t <sub>1</sub>
17 10 23 3		"	S	m s	
585437	2.409346	+3849.79	+256.653	+9 49.715	1755
498004	2.321913	3147.78	209.852	8 2.266	1790
469412	2.293321	2947.21	196.481	7 31.562	1800
438807	2.262716	2746.68	183.112	7 0.855	1810
388431	2.212340	2445.86	163.057	6 14.793	1825
370253	2.194162	+2345.59	+156.373	+5 59.439	1830
351280	2.175189	2245.33	149.689	5 44.084	1835
331442	2.155351	2145.07	143.005	5 28.728	1840
310653	2.134562	2044.81	136.321	5 13.372	1845
288821	2.112730	1944.56	129.637	4 58.014	1850
265832	2.089741	+1844.30	+122.953	+4 42.657	1855
241559	2.065468	1744.05	116.270	4 27.299	1860
215849	2.039758	1643.80	109.587	4 11.941	1865
188521	2.012430	1543.55	102.903	3 56.582	1870
159358	1.983267	1443.30	96.220	3 41.223	1875
128096	1.95201	+1343.06	+ 89.538	+3 25.864	1880
094409	1.91832	1242.82	82.855	3 10.504	1885
057887	1.88180	1142.58	76.172	2 55.143	1890
018010	1.84192	1042.34	69.490	2 39.782	1895
974101	1.79801	942.11	62.807	2 24.421	1900
92525	1.74916	+ 841.87	+ 56.125	+2 9.059	1905
87020	1.69410	741.64	49.443	1 53.696	1910
80714	1.63105	641.41	42.761	1 38.333	1915
73335	1.55726	541.19	36.079	1 22.970	1920
64440	1.46831	440.96	29.398	1 7.606	1925
53242	1.35633	+ 340.74	+ 22.716	+0 52.242	1930
38115	1.20506	240.52	16.035	36.877	1935
14706	0.97097	140.30	9-353	21.512	1940
60299	0.42690	+ 40.09	+ 2.672	+ 6.146	1945
77908n	0.60299n	<b>—</b> 60.13	<b>— 4.009</b>	- 9.220	1950
3	1,20506 0,97097 0,42690	240.52 140.30 + 40.09	16.035 9.353 + 2.672	36.877 21.512 + 6.146	1935 1940 1945

Sind  $\alpha_1$ ,  $\delta_1$  die Koordinaten für  $t_1$  und  $\alpha_2$ ,  $\delta_2$  jene für  $t_2=1947.0$ , ist ferner  $\alpha'$ ,  $\delta'$  der genäherte Sternort für die Zeit

$$\frac{1}{2}(t_1+t_2),$$

so ist

$$\begin{array}{l} a_2 = a_1 + m^{\rm s}(t_2 - t_1) + [n^{\rm s}(t_2 - t_1)] \sin \alpha' {\rm tg} \ \delta' \\ \delta_2 = \delta_1 + [n''(t_2 - t_1)] \cos \alpha' \end{array} \label{eq:a2}$$

Übertragung mittlerer Polsternörter von dem Äquinoktium  $t_1$  auf  $t_2 = 1947.0$ 

<i>t</i> <sub>1</sub>	90°-	- (N)	(m) + (N	V) — 90°	(n)
	1 "	m s		m s	1 11
1755	+73 41.51	+4 54.768	+73 44.48	+4 54.965	+64 9.50
1790	60 16.08	4 1.072	60 18.06	4 1.204	52 27.61
1800	56 25.90	3 45.727	56 27.65	3 45.844	49 7.07
1810	52 35.71	3 30.381	52 37.23	3 30.482	45 46.56
1825	46 50.40	3 7.360	46 51.59	3 7.440	40 45.80
1830	+44 55.27	+2 59.685	+44 56.37	+2 59.758	+39 5.53
1835	43 0.15	2 52,010	43 1.15	2 52.077	37 25.27
1840	41 5.01	2 44.334	41 5.95	2 44.397	35 45.02
1845	39 9.88	2 36.659	39 10.72	2 36.715	34 4.77
1850	37 14.74	2 28.983	37. 15.51	2 29.034	32 24.52
1855	+35 19.61	+2 21.307	+35 20.27	+2 21.351	+30 44.26
1860	33 24.45	2 13.630	33 25.07	2 13.671	29 4.01
1865	31 29.29	2 5.953	31 29.85	2 5.990	27 23.77
1870	29 34.14	1 58.276	29 34.60	1 58.311	25 43.53
1875	27 38.98	1 50.599	27 39.38	1 50.625	24 3.30
1880	+25 43.81	+1 42.921	+25 44.16	+1 42.944	+22 23.05
1885	23 48.62	1 35.241	23 48.94	1 35.263	20 42.81
1890	21 53.44	1 27.563	21 53.72	# 1 27.581	19 2.57
1895	19 58.25	1 19.884	19 58.49	1 19.899	17 22.33
1900	18 3.07	· I 12.206	18 3.25	1 12.217	15 42.11
1905	+16 7.86	+1 4.524	+16 8.02	+1 4.535	+14 1.87\
1910	14 12.66	0 56.844	14 12.79	0 56.853	12 21.64
1915	12 17.46	0 49.164	12 17.54	0 49.169	10 41.42
1920	10 22.24	0 41.483	10 22.31	0 41.487	9 1.19
1925	8 27.02	0 33.801	8 27.08	0 33.805	7 20.96
1930	+ 6 31.80	+0 26.120	+ 6 31.83	40 26.122	+ 5 40.74
1935	4 36.57	0 18.438	4 36.58	0 18.439	4 0.53
1940	2 41.34	0 10.756	2 41.33	0 10.755	2 20.30
1945	+ 0 46.10	+0 3.073	+ 0 46.10	+0 3.07.3	+ 0 40.09
1950	— I 9.15	-o 4.610	— I 9.15	—o 4.610	— ı o.ı3

zur Reduktion von dem Äquinoktium  $t_1$  auf  $t_2$ :  $a_1 = \alpha_1 + [90^{\circ} - (N)]$  $p_1 = (\tan \delta_1 + \cos a_1 \tan \frac{1}{2} (n)) \sin (n)$ 

 $\tan \Delta a_1 = \frac{p_1 \sin a_1}{1 - p_1 \cos a_1}$  $a_2 = a_1 + [(m) + (N) - 90^\circ] + \Delta a_1$  $\tan \frac{1}{2} \left( \delta_2 - \delta_1 \right) =$ 

 $\cos (a_1 + \frac{1}{2} \Delta a_1) \sec \frac{1}{2} \Delta a_1 \tan \frac{1}{2} (n)$ 

Sind  $a_1$ ,  $\delta_1$  die Koordinaten für  $t_1$  und  $a_2$ ,  $\delta_2$  jene für  $t_2 = 1947.0$ , so hat man zur Reduktion von dem Äguinoktium  $t_2$  auf  $t_1$ :

 $a_2 = \alpha_2 - [(m) + (N) - 90^{\circ}]$  $p_2 = -\left(\tan \delta_2 - \cos a_2 \tan \frac{1}{2}(n)\right) \sin (n)$  $\tan \Delta a_2 = \frac{p_2 \sin a_2}{1 - p_2 \cos a_2}$  $a_1 = a_2 - [90^{\circ} - (N)] + \Delta a_2$ tang  $\frac{1}{2}(\delta_1 - \delta_2) =$  $-\cos\left(a_2+\frac{1}{2}\Delta a_2\right)\sec\frac{1}{2}\Delta a_2\tan\frac{1}{2}(n)$  Reduktion von Koordinatendifferenzen scheinbarer Örter auf Differenzen mittlerer Örter für den Jahresanfang.

Sind  $\Delta \alpha$  und  $\Delta \delta$  die gemessenen Koordinatendifferenzen der scheinbaren Örter im Sinne Objekt min us Stern,  $d\Delta \alpha$  und  $d\Delta \delta$  die an ihnen anzubringenden Korrektionen, um Koordinatendifferenzen zu erhalten, die sich auf das mittlere Äquinoktium des Jahresanfangs beziehen, so wird

$$d\Delta\alpha = (d\Delta\alpha)_1 + (d\Delta\alpha)_2$$
  
$$d\Delta\delta = (d\Delta\delta)_1 + (d\Delta\delta)_2,$$

wobei

$$(d\Delta\alpha)_{1} = -j\cos\left(G+\alpha\right) \frac{\operatorname{tg}\,\delta}{15} \,\Delta\alpha^{\,\mathrm{m}} - j\sin\left(G+\alpha\right) \frac{\sec^{2}\,\delta}{225} \,\Delta\delta'$$

$$(d\Delta\alpha)_{2} = -k\cos\left(H+\alpha\right) \frac{\sec\delta}{15} \,\Delta\alpha^{\,\mathrm{m}} - k\sin\left(H+\alpha\right) \frac{\operatorname{tg}\,\delta\sec\delta}{225} \,\Delta\delta'$$

$$(d\Delta\delta)_{1} = j\sin\left(G+\alpha\right) \,\Delta\alpha^{\,\mathrm{m}}$$

$$(d\Delta\delta)_{2} = k\sin\left(H+\alpha\right) \sin\delta\Delta\alpha^{\,\mathrm{m}} - k\cos\left(H+\alpha\right) \frac{\cos\delta}{15} \,\Delta\delta'$$

$$+ \left[0.0003 \, i\sin\delta\Delta\delta'\right]$$

Hierin bezeichnen  $(d \triangle \alpha)_1$  und  $(d \triangle \delta)_1$  den Einfluß der Präzession und Nutation,  $(d \triangle \alpha)_2$  und  $(d \triangle \delta)_2$  den Einfluß der Aberration.

Die Größen G, H, j, k, i sind auf S.  $252^*-269^*$  zu finden. Die Faktoren  $\frac{1}{15}$  tg  $\delta$ ,  $\frac{1}{225}$  sec $^2$   $\delta$ ,  $\frac{1}{15}$  sec  $\delta$ ,  $\frac{1}{235}$  tg  $\delta$  sec  $\delta$ , sin  $\delta$ ,  $\frac{1}{15}$  cos  $\delta$  entnehme man der Zusammenstellung auf S.  $283^*$ . Die numerischen Werte der Funktionen sinus und cosinus sind auf S.  $284^*$  enthalten.  $\Delta \alpha^m$  bedeutet die in Zeitminuten ausgedrückte gemessene Rektaszensionsdifferenz,  $\Delta \delta'$  ist die in Bogenminuten ausgedrückte gemessene Deklinationsdifferenz. Die Größen  $d\Delta\alpha$  und  $d\Delta\delta$  ergeben sich in Zeit-bzw. Bogensekunden. Das in eckige Klammern gesetzte Glied 0.0003 i sin  $\delta\Delta\delta'$  in der Formel für  $(d\Delta\delta)_2$  beträgt für  $\Delta\delta'=10'$  im Maximum 0'02 und kann daher in den meisten Fällen unberücksichtigt bleiben.

	427		7000				1-10-2	1000	
δ	$\frac{1}{15}$ tg $\delta$	$\frac{1}{225}\sec^2\delta$	$\frac{1}{15}\sec\delta$	$\frac{1}{225}$ tg $\delta$ sec $\delta$	sin ð	$\frac{1}{15}\cos\delta$	tg ð	$\frac{1}{15}$ sec <sup>2</sup> $\delta$	δ
o°	0.000	0.004	0.067	0.000	0,00	0.07	0.00	0.07	o°
.5	0.006	0.004	0.067	0,000	0.09	0.07	0.09	0.07	5
10	0.012	0.005	0.068	0.001	0.17	0.07	0.18	0.07	10
15	0.018	0.005	0.069	0,001	0.26	0.06	0.27	0.07	15
20	0.024	0.005	0.071	0.002	0.34	0.06	0.36	0.08	20
25	0.031	0.005	0.074	0.002	0.42	0.06	0.47	0.08	25
30	0.038	0.006	0.077	0.003	0.50	0.06	0.58	0.09	30
35	0.047	0.007	0.081	0.004	0.57	0.05	0.70	0.10	35
40	0.056	0.008	0.087	0.005	0.64	0.05	0.84	0.11	40
-	0.056	0.008	0.087	0.005	0.64	0.05	0.84	0.11	- 2
40 42	0.050	0.008	0.090	0.005	0.67	0.05	0.90	0.12	40 42
	0.064	0.009		0.005	0.69	0.05	200000000000000000000000000000000000000		TOTAL COLUMN
44 46	0.004		0.093	and the second second		100	0.97	0.13	44 46
	0.009	0.009	0.100	0.007	0.72	0.05	1.04	0.14	48
48		100000000000000000000000000000000000000	* 100° - 1 100 100°	0.007	0.74	0.04	1.11	0.15	
50	0.079	0.011	0.104	0.008	0.77	0.04	1.19	0.16	50
52	0.085	0.012	0.108	0,009	0.79	0.04	1,28	0.18	52
54	0.092	0.013	0.113	0.010	18.0	0.04	1.38	0.19	54
56	0.099	0.014	0.119	0,012	0.83	0.04	1.48	0.21	56
58	0.107	0.016	0.126	0.013	0.85	0,04	1.60	0.24	58
60	0.115	0.018	0.133	0.015	0.87	0.03	1.73	0.27	60
60	0.115	,0'018	0.133	0.015	0.87	0.03	1.73	0.27	60
6i	0.120	0.019	0.138	0.017	0.87	0.03	1.80	0.28	61
62	0.125	0.020	0.142	0.018	0.88	0.03	1.88	0.30	62
63	0.131	0.022	0.147	0.019	0.89	0.03	1.96	0.32	63
64	0.137	0.023	0.152	0.021	0.90	0.03	2.05	0.35	64
65	0.143	0.025	0.158	0.023	0.91	0.03	2.14	0.37	65
66	0.150	0.027	0.164	0.025	0.91	0.03	2.25	0.40	66
67	0.157	0.029	0.171	0.027	0.92	0.03	2.36	0.44	67
68	0.165	0.032	0.178	0.029	0.93	'0.02	2.48	0.48	68
69	0.174	0.035	0.186	0.032	0.93	0.02	2.61	0.52	69
70	0.183	0.038	0.195	0.036	0.94	0.02	2.75	0.57	70
71	0.194	0.042	0.205	0.040	0.95	0.02	2.90	0.63	71
72	0.205	0.047	0.216	0.044	0.95	0.02	3.08	0.70	72
. 73	0.218	0.052	0.228	0.050	0.96	0.02	3.27	0.78	73
74	0.232	0.058	0.242	0.056	0.96	0.02	3.49	0.88	74
75	0.249	0.066	0.258	0.064	0.97	0.02	3.73	1.00	75
75.0	0.249	0.066	0.258	0.064	0.97	0.02	3.73	1.00	75.0
75.5	0.258	0.071	0.266	0.069	0.97	0.02	3.87	1.06	75.5
76.0	0.267	0.076	0.276	0.074	0.97	0,02	4.01	1.14	76.0
76.5	0.278	0.082	0.2/6	0.079	0.97	0.02		1.22	76.5
77.0	0.2/8	0.082	0.296	0.079	0.97	0.02	4.17	1.32	77.0
77.5	0.301	0.095	0.298	0.093	0.98	0.01	4.51	1.42	77.5
78.0	0.301	0.103	0.308	0.093	0.98	0.01	4.70	1.54	78.0
78.5	0.314	0.103	THE RESERVE OF THE PARTY OF THE	0.101	0.98	10,0	4.92	1.68	78.5
The second second second	Commence of the Control of the Contr	0.112	0.334	0,110	0.98	10,01		1.83	79.0
79.0	0.343	200 80 - 200 40 100	0.349 0.366	The second second second	0.98		5.14	2.01	79.5
79.5 80.0	0.360	0.134	0.384	0.132 0.145	0.98	0.01	5.40 5.67	2.21	80.0
00.0	0.378	0.147	0.304	0.145	0.90	0.01	3.0/	2,21	00.0

a desirable	O <sup>h</sup>	I,p	2 h	3 h	4 <sup>h</sup>	5 h	1
om	0.000	0.259	0.500	0.707	0.866	0.966	60
I	0.004	0.263	0.504	0.710	0.868	0.967	59
2	0.009	0.267	0.508	0.713	0.870	0.968	58
. 3	0.013	0.271	0.511	0.716	0.872 0.875	0.969	57
4 4	0.017	0.276	0.515	0.719	0.877	0.970	56 55
5 6	0.026	0.284	0.522	0.725	0.879	0.972	54
7 8	0.031	0.288	0.526	0.728	0.881	0.973	53
ACCRECATION OF THE PARTY OF THE	0.035	0.292	0.530	0.731	0.883	0.974	52
9	0.039	0.297	0.534	0.734	0.885	0.975	51
10	0.044	0.301	0.537	0.737	0.887	0.976	50
II	0.048	0.305	0.541	0.740	0.889	0.977	49
12	0.052	0.309	0.545 0.548	0.743	0.891	0.978	48
14	0.061	0.317	0.552	0.749	0.895	0.980	46
15	0.065	0.321	0.556	0.752	0.897	0.981	45
16	0.070	0.326	0.559	0.755	0.899	0.982	44
17	0.074	0.380	0.563	0.758	0.901	0.982	43
19	0.078 0.083	0.334 0.338	0.566 0.570	0.760	0.903	0.983 0.984	42
20	0.087	0.342	0.574	0.766	0.904	0.985	41
21	0.092	0.346		0.769	0.908	0.986	
22	0.092	0.350	0.577 0.581	0.772	0.910	0.986	39
23	0.100	0.354	0.584	0.774	0.912	0.987	37
24	0.105	0.358	0.588	0.777	0.914	0.988	36
25	0.109	0.362	0.591	0.780	0.915	0.988	35
26	0.113	0.367	0.595 0.598	0.783	0.917	0.989	34
27 28	0.122	0.371	.0.602	0.788	0.919	0.990	33
29	0.126	0.379	0.605	0.791	0.922	0.991	31
30	0.131	0.383	0.609	0.793	0.924	0.991	3,0
31	0.135	0.387	0.612	0.796	0.926	0.992	29
32	0.139	0.391	0.616	0.799	0.927	0.993	28
33	0.143	0.395	0.619	0.801	0.929	0.993	27
34	0.148	0.399 0.403	0.623	0.804	0.930	0.9 <u>9</u> 4 0.994	26 25
35 36	0.156	0.407	0.629	0.809	0.934	0.995	24
37	0.161	0.411	0.633	0.812	0.935	0.995	23
38	0.165	0.415	0.636	0.814	0.937	0.995	22
39	0.169	0.419	0.639	0.817	0.938	0.996	21
40	, 0.174	0.423	0.643	0.819	0.940	0.996	20
41	0.178	0.427	0.646	0.822	0.941	0.997	19
42	0.182	0.431	0.649	0.824	0.943	0.997	18
43	0.191	0.434	0.653 0.656	0.829	0.944	0.997	17
45	0.195	0.442	0.659	0.831	0.947	0.998	15
46	0.199	0.446	0.663	0.834	0.948	0.998	14
47	0.204	0.450	0.666	0.836	0.950	0.998	13
48	0.208	0.454	0.669	0.839	0.951	0.999 '	12
49	0.212	0.458	0.672	0.841	0.952	0.999	II
50	0.216	0.462	0.676	0.843	0.954	0.999	10
51 52	0.221	0.466 0.469	0,679 0.682	0.846	0.955 0.956	0.999	9 8
53	0.229	0.473	0.685	0.850	0.958	1.000	
54	0,233	0.477	0.688	0.853	0.959	1.000	6
55	0.238	0.481	0.692	0.855	0.960	1,000	5
56	0.242	0.485	0.695	0.857	0.961	1.000	4
57 58	0.246	0.489	0.698 0.701	0.859	0.962	1,000	3 2
59	0.255	0.4 <u>9</u> 2 0.496	0.704	0.864	0.964 0.965	1.000	ı
60	0.259	0.500	0.707	0.866	0.966	1.000	O <sup>m</sup>
	5 <sup>h</sup>	4 <sup>h</sup>	3 <sup>h</sup>	2 h	I h	O <sub>p</sub>	TO THE REAL PROPERTY.

Cosinus

Übertragung von Rektaszensions- und Deklinationsdifferenzen vom mittleren Äquinoktium 1947.0 auf das Normaläquinoktium 1950.0

a	$a_1$	$a_2$	$d_1$	α	α	a <sub>1</sub>	$a_2$	$d_1$	α
h m		7 4.	and sinking	h m	h m		E CAN TO	1914 200	h m
0.0	+0.0175+	+0.0000-	-0.000+	24 0	60	-0.0000-	+0.0175-	-0.262+	18 0
10	0175	0008	110	50	10	0008	0175	262	50
20	0174	0015	023	40	20	0015	0174	261	40
30	0173	0023	034	30	30	0023	0173	260	30
40	0172	0030	046	20	40	0030	0172	258	20
50	0171	003,8	057	IQ	50	0038	0171	256	10
I O	+0.0169+	+0.0045-	ბ.068+	23 0	70	-0.0045-	+0.0169-	-0.253+	17 0
10	0167	0053	079	50	10	0053	0167	250	50
20	0164	0060	. 090	40	20	0060	0164	246	40
30	0162	0067	100	30	30	0067	0162	242	30
40	0159	0074	III	20	40	0074	0159	238	20
50	0155	0081	121	10	50	/ 0081	0155	233	10
2 0	+0.0151+	+0.0087-	-0.131+	22 0	8. o	-0.0087-	+0.0151-	-0.227+	16 0
10	0147	0094	141	50	10	0094	0147	221	50
20	0143	0100	150	40	20	0100	0143	215	40
30	0139	0106	160	30	30	0106	0139	208	30
40	0134	0112	169	20	40	0112	0134	201	20
50	0129	0118	177	10	50	0118	0129	193	10
3 0	+0.0124+	+0.0124-	-0.185+	21 0	90	-0.0124-	+0.0124-	-0.185+	15 0
10	011,8	0129	193	50	10	0129	0118	177	50
.30	0112	0134	201	40	20	0134	0112	169	40
30	0106	0139	208	30	30	0139	0106	160	30
40	0100	0143	215	20	40	0143	0100	150	20
50	0094	0147	221	10	50	0147	0094	141	10
4 0	+0.0087+	+0.0151-	-0.227+	20 0	10 0	-0.0151-	+0.0087-	-0.131+	14 0
10	0081	0155 .	233	50	. 10	0155	0081	121	50
20	0074	0159	238	40	20	0159	0074	III	40
30	0067	0162	242	30	30	0162	0067	100	30
40	0060	0164	246	- 20	40	0164	0060	090	20
50	0053	0167	250	10	5.0	0167	0053	, 079	10
5 0	+0.0045+	+0.0169-	-0.253+	19 0	11 0	-0.0169-	+0.0045-	-0.068+	13 0
10	0038	0171	256	50	10	0171	0038	057	50
20	0030	0172	258	40	20	0172	0030	046	40
30	0023	0173	260	30	30	0173	0023	034	30
40	0015	0174	261	20	40	0174	0015	023	20
50	0008	0175	262	10	50	0175	0008	OII	10
6 0	+0.0000+	+0.0175-	-o.262+	18 0	12 0	-0.0175-	+0.0000-	-0.000+	12 0

Für a zwischen 12 h und 24 h gelten die Vorzeichen zur Rechten.

 $\Delta a^m$  bedeutet die Rektaszensionsdifferenz in Zeitminuten,  $\Delta \delta'$  ist die Deklinations-differenz in Bogenminuten.

Die Werte von tg  $\delta$  und  $\frac{1}{15} \sec^2 \delta$  sind auf S. 283\* enthalten.

Reduktion vom mittleren Äquinoktium 1950.0 auf das jedesmalige wahre Äquinoktium

0 h				0 h			
Weltzeit	f	log g	G	Weltzeit	f	log g	G
1947	S		h m s	1947	S		h m s
Jan. o	-10.189	1.82276	12 9 9	Juni 29	-8,606	1.75014	12 16 29
5	10.132	1.82033	12 9 29	Juli 4	8.550	1.74736	12 16 51
10	10.076	1.81794	12 9 52	9	8.495	1.74462	12 17 17
15	10.021	1.81561	12 10 18	14	8.441	1.74193	12 17 46
20	9.968	1.81337	12 10 46	19	8.388	1.73929	12 18 18
25	- 9.918	1.81119	12 11 16	24	-8.337	1.73671	12 18 52
30	9.869	1.80912	12 11 48	29	8.288	1.73425	12 19 29
Febr. 4	9.823	1.80714	12 12 21	Aug. 3	8.240	1.73186	12 20 6
9	9.780	1.80527	12 12 54	8	8.195	1.72959	12 20 45
14	9.739	1.80350	12 13 26	13	8.152	1.72739	12 21, 24
19	- 9.700	1.80184	12 13 57	18	-8.111	1.72533	12 22 2
24	9.663	1.80024	12 14 26	23	8.072	1.72333	12 22 39
März 1	9.628	1.79873	12 14 53	28	8.034	1.72144	12 23 14
6	9.595	1.79728	12 15 17	Sept. 2	7.999	1.71960	12 23 47
( 11	9.563	1.79586	12 15 37	7	7.965	1.71785	12 24 17
16	- 9.532	1.79447	12 15 54	12	-7.932	1.71615	12 24 43
21	9.501	1.79310	12 16 8	17	7.900	1.71446	12 25 5
26	9.470	1.79171	12 16 17	22	7.868	1.71278	12 25 24
31	9.439	1.79028	12 16 24	27	7.836	1.71108	12 25 38
April 5	9.407	1.78882	12 16 27	Okt. 2	7.805	1.70934	12 25 49
10	- 9.374	1.78728	12 16 27	7	-7.772	1.70757	12 25 55
15	9.339	1.78568	12 16 24	12	7.739	1.70570	12 25 58
20	9.303	1.78397	12 16 19	17	7.704	1.70373	12 25 57
25	9.265	1.78218	12 16 13	22	7.667	1.70165	12 25 54
30	9.225	1.78027	12 16 6	27	7.629	1,69944	12 25 48
Mai 5	- 9.182	1.77824	12 15 58	Nov. 1	-7.588	1.69709	12 25 41
10	9.137	1.77613	12 15 50	6	7.545	1.69458	12 25 33
15	9.091	1.77387	12 15 43	II	7.499	1.69192	12 25 24
20	9.042	1.77152	12 15 37	16	7.451	1.68910	12 25 16
25	8.991	1.76908	12 15 33	21	7.401	1.68613	12 25 10
30	- 8.939	1.76653	12 15 31	26	-7.348	1.68300	12 25 7
Juni 4	8.885	1.76391	12 15 32	Dez. 1	7.293	1.67978	12 25 7
9	8.831	1.76124	12.12 37	6	7.237	1.67642	12 25 10
14	8.775	1.75850	12 15 44	11	7.179	1.67296	12 25 18
19	8.718	1.75573	12 15 55	16	7.120	1.66944	12 25 31
24	- 8.662	1.75294	12 16 10	21	<b>-7.</b> 061	1.66585	12 25 49
29	8.606	1.75014	12 16 29	26	7.001	1.66225	12 26 13
Juli 4	- 8.550	1.74736	12 16 51	31	<del>-6.941</del>	1.65864	12 26 43

Die mit den vorstehend gegebenen Größen f, log g und G berechnete Reduktion vom mittleren Äquinoktium 1950.0 auf das wahre Äquinoktium der Epoche bedarf noch einer Verbesserung, die von dem Einfluß der Variatio saecularis herrührt und auf Seite 287\* enthalten ist,

Es wird somit: Red. in  $a = f + \frac{1}{15}g\sin(G + a)$  tg  $\delta$  + Korr. nach S. 287\*

Red. in  $\delta = g\cos(G + a)$  + Korr. nach S. 287\*

Korrektion der Reduktion vom mittleren Äquinoktium 1950.0 auf das jedesmalige wahre Äquinoktium (s. S. 286\*), berechnet für 1947.0, mit Hinzufügung ihrer einjährigen Änderung.

				V 6 1 2 1 1 1 1	δ		, ,	
α	+60°	+50°	+30°	+10°	-10°	-30°	-50°	-60°
			Für Rel	ktaszensio	n (in o.º00	1)		
oh	$\begin{vmatrix} +2 & -2 \\ +3 & -2 \end{vmatrix}$	+2 -I +2 -I	+1 -1 +1 -1	0 0	0 0	-I 0 0 0	-2 +1 -I +1	-2 +1
I 2	$\begin{vmatrix} +3 & -2 \\ +4 & -3 \end{vmatrix}$	+2 -I +2 -2	+1 -1	+1 0	0 0	0 0	0 0	0 0
3	+4 -2	+2 -2	+1 -1	+1 0	0 0	0 0	0 0	+1 0
4	+3 -2	+2 -I	+1 -1	0 0	0 0	0 0	0 0	+1 0
5	+2 -1	+1 -1	+1 0	0 0	0 0	0 0	0 0	+1 0
6 7	0 0	-I +I 0 0	0 0	0 0	0 0	0 0	0 0	0 0
8	-3 +2	-2 +1	-I O	0 0	0 0	0 0	0 0	0 0
9	-4 +2	-2 +I	-1 + 1	0 0	0 0	0 0	0 0	0 0
10	-4 +2	-2 + 2	-1 + 1	0 0	0 0	0 0	+1 0	0 0
II	-3 +2	-2 +1	-I +I	. 0 0	0 0	+1 0	+1 -1	+1 -1
12	-2 +1 -1 +1	-2 +I -I +I	-I 0	0 0	0 0	+1 -1	+2 -I +2 -I	+2 -2 +3 -2
14	0, 0	0 0	0 0	0 0	+1 0	+1 -1	+2 -2	+4 -3
15	+1 0	0 0	0 0	0 0	+1 0	+1 -1	+2 -2	+4 -2
.16	+1 0	0 0	0 0	0 0	0 0	+1 -1	+2 -1	+3 -2
17	0 0	0 0	0 0	0 0	0 0	0 0	0 0·	+2 -r 0 0
19	0 0	0 0	0 0	0 0	0 0	0 0	-1 +1	-2 +1
20	0 0	0 0	0 0	0 0	0 0	-I 0	-2 +1	-3 +2
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0 0.001.         60.13         1.036         58.07         2.002         51.90         2.02         51.93         4.95         3.485         34.23         3.055         3.877         15.29         1           2         0.036         60.13         1.073         57.93         2.055         51.80         2.860         4.213         3.490         20.60         3.881         15.04         2           4         0.071         60.12         1.109         57.95         2.008         51.39         2.872         4.10         3.69         2.14         1.890         14.79         3           5         0.088         60.10         1.175         57.79         2.11         51.22         2.924         41.73         3.532         2.815         3.931         3.77         7           8         0.141         60.09         1.74         57.49         2.125         50.90         2.954         4.01         3.554         2.998         3.91         3.137         2.79           10         0.176         60.09         1.209         57.44         2.155         50.70         2.956         4.021         3.564         2.998         3.91         3.525         2.914         1.129	m	+ A	+ D-	The state of the s	+ D	+ A	+D		+D-	The state of the state of	+D-	10.00	+ D	m
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14 0.246 60.02 1.293 57.02 2.214 50.13 3.004 39.84 3.589 26.82 3.992 11.08 14           15 0.263 60.00 1.200 55.93 1.305 56.85 2.223 49.84 3.027 39.44 3.604 26.35 3.932 11.72 11           16 0.281 59.98 1.306 56.85 2.223 49.84 3.027 39.44 3.604 26.35 3.936 11.46 16           17 0.298 59.96 1.333 56.76 2.258 49.69 3.038 39.24 3.612 26.11 3.939 11.20 17           18 0.316 59.94 1.339 56.68 2.272 49.54 3.050 39.04 3.619 25.87 3.942 10.68 19           19 0.333 59.92 1.356 56.59 2.286 49.39 3.061 38.84 3.627 25.63 3.945 10.68 19           20 0.351 59.00 1.372 56.30 2.300 49.24 3.072 38.64 3.634 25.15 3.951 10.16 21           21 0.369 39.88 1.388 56.41 2.315 49.09 3.083 38.44 3.641 25.15 3.951 10.16 21           22 0.366 59.95 1.405 56.32 2.333 48.79 3.106 38.04 3.656 24.68 3.957 9.65 23           24 0.421 59.80 1.438 56.13 2.358 48.63 3.117 37.83 3.663 24.44 3.960 9.39 24           25 0.438 59.77 1.454 56.03 2.372 48.48 3.128 37.63 3.667 24.20 3.962 9.13 26           26 0.456 59.74 1.470 55.94 2.386 48.32 3.139 37.63 3.663 24.44 3.960 9.39 24           27 0.473 59.91 1.486 55.84 2.400 48.17 3.149 37.22 3.684 23.23 3.97 8.69 8.87 2.28           29 0.508 59.64 1.519 55.64 2.4247 47.85 3.17 36.80 3.061 23.48 3.970 8.35 3.94           31 0.542 59.67 1.555 55.44 2.455 47.69 3.818 3.659 3.794 22.99 3.974 7.83 3           32 0.565 59.54 1.567 55.34 2.446 47.21 3.22 3.66 3.797 2.22.5 3.999 3.974 7.83 3           33 0.577 59.50 1.583 55.54 2.441 47.04 3.60 3.60 3.70 3.691 23.48 3.970 8.79 3.71 3.33 3.06 3.00 3.00 3.00 3.00 3.00 3.00	0.000	CANADA SANTA SANTA				Control of the contro						The second second	and the same of th	Sec. 10.00
15 0.263 60.00 1.200 56.93 2.229 49.98 3.015 39.64 3.906 26.58 3.932 11.72 15 15 0.288 59.96 1.323 56.76 2.258 49.69 3.038 39.24 3.612 26.11 3.939 11.20 17 18 0.316 59.94 1.339 56.68 2.272 49.54 3.050 39.04 3.619 25.87 3.944 10.04 18 19 0.333 59.92 1.356 56.59 2.286 49.93 3.061 38.84 3.627 25.63 3.945 10.04 18 0.03 15.00 59.88 1.385 56.50 2.300 49.24 3.072 38.64 3.634 25.39 3.945 10.68 19 20.035 59.90 1.372 56.50 2.300 49.24 3.072 38.64 3.634 25.39 3.945 10.68 19 20.036 59.88 1.495 56.32 2.343 48.79 3.06 38.44 3.644 25.39 3.945 10.68 19 22.20 3.86 59.85 1.495 56.32 2.343 48.79 3.06 38.04 3.656 24.08 3.957 10.04 20 22 24 0.421 59.80 1.438 56.13 2.358 48.63 3.117 37.83 3.663 24.44 3.960 9.39 24 0.421 59.80 1.438 56.13 2.358 48.63 3.117 37.83 3.663 24.44 3.960 9.39 24 25 0.438 59.77 1.454 56.03 2.372 48.48 3.3128 37.03 3.042 3.670 24.20 3.965 29.13 25 0.404 59.82 1.421 55.84 2.400 48.17 31.49 37.22 3.684 23.72 3.966 9.39 24 2.25 0.455 59.74 1.450 55.84 2.400 48.17 31.49 37.22 3.684 23.72 3.966 9.39 24 2.25 0.455 59.74 1.450 55.84 2.400 48.17 31.49 37.22 3.684 23.72 3.967 8.661 27 20.0473 59.71 1.456 55.84 2.400 48.17 31.49 37.22 3.684 23.72 3.967 8.610 27 20.058 59.64 1.519 55.64 2.477 47.85 3.172 3.686 3.697 23.23 3.972 8.09 29 20.508 59.64 1.519 55.64 2.441 47.69 3.181 36.59 37.01 2.25 39.97 3.974 3.970 8.33 31 0.542 59.57 1.551 55.44 2.455 47.37 3.302 36.37 3.71 2.25 3.997 7.33 32 0.560 59.54 1.567 55.34 2.469 47.37 3.202 36.17 3.717 22.51 3.999 7.31 32 3.050 59.54 1.567 55.34 2.469 47.37 3.202 36.17 3.717 22.51 3.997 7.31 32 3.050 59.34 1.651 5.902 2.255 46.72 3.344 35.54 35.54 3.49 37.91 3.995 5.73 3.996 5.73 3.996 5.73 3.996 5.73 3.996 5.73 3.996 5.73 3.996 5.73 3.996 5.73 3.996 5.73 3.996 5.73 3.996 5.73 3.996 5.74		E-02000 1000				COLUMN TO SECUL			1001-				STEEL STEEL	1000
16         0.281         59.98         1.306         66.85         2.243         49.84         3.027         39.44         3.602         26.35         3.936         II.46         16           17         0.288         59.94         1.339         56.68         2.272         49.54         3.050         39.44         3.612         26.11         3.939         II.20         17           20         0.351         59.99         1.350         56.59         2.206         49.39         3.061         38.84         3.627         25.63         3.948         10.42         20           21         0.360         59.88         1.485         56.41         2.315         49.09         3.083         38.44         3.641         2.515         3.991         10.42         20           22         0.386         59.85         1.495         56.32         2.338         48.94         3.053         38.24         3.649         24.92         3.954         10.42         20           23         0.404         59.85         1.495         56.32         2.338         48.03         3.173         3.650         2.468         3.977         9.65         2.3           24         2.402	NAME OF TAXABLE PARTY.	1	1 4 7 1 7 1 7 1	100	The second second								Carlo Villa	10000
17		CONTRACTOR OF THE PARTY OF THE	The second second second			The second second						The State of		
19	TANKS LAN		59.96	100 march 100 ma		A 10 A 30 A 1	49.69	3.038	39.24				11.20	
20	OF COLUMN	CORPT CHICK IN					3 3 - 1 - 3 - 4				1000	10000		0.00
21         0.369         59.88         1.388         56.41         2.315         49.09         3.083         38.44         3.641         25.15         3.991         10.16         21           22         0.386         59.85         1.421         56.22         2.349         48.94         3.095         38.24         3.649         24.92         3.954         9.90         22           24         0.421         59.80         1.438         56.13         2.358         48.63         3.117         37.83         3.663         24.468         3.957         9.65         23           25         0.438         59.77         1.490         55.94         2.386         48.32         3.139         37.42         3.664         2.372         3.967         8.87         26         0.473         59.71         1.486         55.84         2.400         48.17         3.149         37.22         3.684         23.72         3.967         8.61         27           28         0.490         59.68         1.503         55.74         2.414         48.01         3.10         3.691         23.23         3.972         8.61         27           29         0.508         59.64         1.535	_													_
22         0.386         50.85         1.491         56.32         2.329         48.94         3.095         38.24         3.649         24.92         3.954         9.90         22           23         0.494         59.80         1.438         56.13         2.358         48.63         3.117         37.83         3.656         24.68         3.957         9.65         23           25         0.438         59.77         1.454         56.03         2.372         48.48         3.128         3.660         24.44         3.960         9.39         24           26         0.456         59.74         1.476         55.94         2.366         48.32         3.139         37.42         3.670         24.20         3.962         9.13         25           28         0.490         59.68         1.503         55.74         2.414         48.01         3.160         3.701         3.691         2.343         3.970         8.35         <	0.000					the state of the second	0.00				0.00	_		100 may 2
23         0.404         59.8c         I.421         56.22         2.348         48.79         3.106         38.04         3.656         24.68         3.957         9.655         23           24         0.438         59.77         I.454         56.03         2.372         48.48         3.128         37.63         3.663         24.44         3.960         9.13         25           26         0.456         59.74         I.470         55.94         2.386         48.32         3.139         37.42         3.677         23.96         3.965         8.61         22           28         0.490         59.68         1.503         55.74         2.414         48.01         3.160         37.01         3.691         23.43         3.970         8.35         28           29         0.508         59.64         1.519         55.64         2.427         47.85         3.171         36.80         3.697         23.23         3.972         8.09         29           30         0.525         59.61         1.551         55.54         2.441         47.69         3.181         36.59         3.704         22.93         3.974         7.73         3.2         3.636         3.271					The second second									2000
25         0.438         59.77         I.454         56.03         2.372         48.48         3.128         3.670         24.20         3.962         9.13         25           26         0.473         59.74         I.470         55.94         2.386         48.32         3.139         3.7.42         3.677         23.96         3.965         8.87         26           27         0.473         59.68         I.593         55.74         2.441         48.01         3.160         37.01         3.691         23.48         3.970         8.35         28           29         0.508         59.64         I.519         55.64         2.427         47.85         3.171         36.60         3.697         23.23         3.972         8.09         29           30         0.525         59.61         I.555         55.54         2.441         47.69         3.181         36.59         3.704         22.99         3.974         7.83         30           31         0.560         59.54         I.567         55.34         2.448         47.21         3.213         36.17         3.711         22.59         3.976         7.53         31           33         0.577 <t< td=""><td>23</td><td>0.404</td><td>59.82</td><td></td><td>56.22</td><td>2.343</td><td>The second second</td><td>THE RESERVE AND ADDRESS OF THE PARTY OF THE</td><td></td><td>3.656</td><td></td><td>CORC TOTAL</td><td>9.65</td><td>23</td></t<>	23	0.404	59.82		56.22	2.343	The second second	THE RESERVE AND ADDRESS OF THE PARTY OF THE		3.656		CORC TOTAL	9.65	23
26         0.456         59.74         1.470         55.94         2.386         48.32         3.139         37.42         3.667         23.96         3.965         8.87         26           27         0.473         59.71         1.486         55.84         2.400         48.17         3.149         37.22         3.684         23.72         3.970         8.61         22.348         3.970         8.35         28           29         0.508         59.64         1.519         55.64         2.427         47.85         3.171         36.80         3.697         23.23         3.972         8.09         29           30         0.525         59.61         1.535         55.54         2.441         47.69         3.181         36.59         3.794         22.99         3.974         7.63         33           31         0.542         59.56         1.551         55.44         2.455         47.53         3.102         36.18         3.711         22.51         3.997         7.57         31           33         0.577         59.50         1.583         55.24         2.448         47.21         3.213         3.597         3.731         22.51         3.991         7.61	Carlo Barrier							The second second			and the second second			Section 1
27         0.473         59.71         1.486         55.84         2.400         48.17         3.149         37.22         3.684         23.72         3.967         8.61         27           28         0.490         59.68         1.503         55.74         2.414         48.01         3.160         37.01         3.691         23.48         3.970         8.35         28           29         0.508         59.64         1.519         55.64         2.427         47.85         3.171         36.80         3.974         7.83         3.092           31         0.542         59.57         1.551         55.44         2.455         47.53         3.192         36.38         3.711         22.75         3.976         7.57         31           32         0.560         59.54         1.567         55.34         2.469         47.37         3.202         36.17         3.717         22.51         3.997         7.31         32           33         0.577         59.50         1.583         55.73         2.497         47.05         3.224         35.76         3.731         22.251         3.985         6.53         35           36         0.629         59.421		Company of the last of the las	And the second of		A CONTRACTOR OF THE PARTY OF TH			ALC: A COLUMN			The state of the s			
28         0.490         59.68         1.503         55.74         2.414         48.01         3.160         37.01         3.691         23.48         3.970         8.35         28           39         0.525         59.61         1.535         55.54         2.427         47.69         3.181         36.80         3.697         22.23         3.970         8.09         29           31         0.542         59.57         1.551         55.44         2.455         47.53         3.192         36.38         3.711         22.75         3.976         7.57         31           32         0.560         59.54         1.567         55.34         2.469         47.37         3.202         36.17         3.717         22.51         3.979         7.31         32           3.4         0.594         59.46         1.599         55.73         2.497         47.05         3.224         35.76         3.731         22.03         3.983         6.79         34           3.5         0.661         59.38         1.631         54.92         2.538         46.55         3.244         35.33         3.743         21.29         3.985         6.53         35           3.6	CONTRACTOR OF					A Print of the last of the		The second second	and the second second		A STATE OF THE PARTY OF THE PAR			1000000
30 0.525 59.51 1.535 55.54 2.441 47.69 3.181 36.59 3.704 22.99 3.974 7.83 30 31 0.542 59.57 1.551 55.44 2.455 47.53 3.192 36.38 3.711 22.75 3.976 7.57 31 32 0.560 59.54 1.567 55.34 2.469 47.37 3.202 36.38 3.711 22.75 3.979 7.31 32 33 0.577 59.50 1.583 55.24 2.483 47.21 3.213 35.97 3.724 22.27 3.981 7.05 33 3.4 0.594 59.46 1.599 55.13 2.497 47.05 3.224 35.76 3.731 22.03 3.983 6.79 34 35 0.611 59.42 1.615 55.03 2.511 46.88 3.234 35.54 3.737 21.78 3.985 6.53 35 0.629 59.38 1.631 54.92 2.525 46.72 3.244 35.33 3.743 21.78 3.985 6.53 35 37 0.646 59.34 1.047 54.82 2.538 46.55 3.254 35.12 3.749 21.29 3.988 6.00 37 38 0.663 59.30 1.663 54.71 2.551 46.39 3.264 34.90 3.755 21.05 3.990 5.74 38 399 0.680 59.25 1.679 54.60 2.565 46.22 3.274 34.69 3.761 20.80 3.992 5.48 39 0.680 59.21 1.605 54.49 2.578 46.05 3.284 34.47 3.767 20.55 3.993 5.22 40 41 0.714 59.16 1.711 54.38 2.592 45.88 3.294 34.26 3.773 20.31 3.995 4.96 41 0.744 59.16 1.711 54.38 2.592 45.88 3.294 34.26 3.773 20.31 3.995 4.96 41 0.766 59.02 1.759 54.03 2.632 45.37 3.325 33.83 3.785 19.81 3.998 4.43 44 0.766 59.02 1.759 54.03 2.632 45.37 3.325 33.61 3.791 19.57 3.999 4.470 42 43 0.749 59.07 1.743 54.14 2.618 45.54 3.315 33.83 3.797 19.32 4.000 3.91 45 0.801 58.92 1.774 53.91 2.658 45.20 3.334 33.39 3.797 19.32 4.000 3.91 45 45 0.801 58.92 1.774 53.91 2.658 45.37 3.325 33.61 3.791 19.57 3.999 4.417 44 50.801 58.92 1.790 53.79 2.658 45.37 3.325 33.61 3.791 19.57 3.999 4.417 44 50.801 58.92 1.790 53.79 2.658 45.37 3.325 33.83 3.797 19.32 4.000 3.91 45 45 0.801 58.92 1.790 53.79 2.658 45.30 3.334 33.83 3.80 3.797 19.32 4.000 3.91 45 40 0.801 58.92 1.795 53.68 2.604 44.67 3.363 32.73 3.813 18.57 4.003 3.312 48 0.835 58.81 1.821 53.56 2.684 44.67 3.363 3.293 3.813 18.57 4.003 3.312 48 0.855 58.81 1.821 53.56 2.684 44.67 3.363 3.293 3.849 17.81 4.004 2.86 49 0.852 58.76 1.836 53.44 2.696 44.50 3.373 3.251 3.819 18.31 4.004 2.86 49 0.852 58.76 1.836 53.44 2.696 44.50 3.373 3.251 3.819 18.31 4.004 2.86 59 50 0.935 58.58 1.883 53.08 2.735 43.96 3.401 31.85 3.849 17.81 4.0	No. of Persons		59.68	1.503		2.414		3.160		3.691	23.48	3.970		
31  0.542  59.57  1.551  55.44  2.455  47.53  3.192  36.38  3.711  22.75  3.976  7.57  31 32  0.560  59.54  1.567  55.34  2.469  47.37  3.202  36.17  3.717  22.51  3.979  7.31  32.33  5.977  59.50  1.583  55.24  2.483  47.21  3.213  35.97  3.724  22.27  3.981  7.05  33 34  0.594  59.46  1.599  55.13  2.497  47.05  3.224  35.76  3.731  22.03  3.983  6.79  34 35  0.611  59.42  1.615  55.03  2.511  46.88  3.234  35.56  3.737  21.78  3.985  6.53  35 36  0.629  59.38  1.631  54.92  2.525  46.72  3.244  35.33  3.743  21.54  3.987  6.27  36 37  0.646  59.34  1.647  54.82  2.538  46.55  3.254  35.12  3.749  21.29  3.988  6.00  37 38  0.663  59.30  1.663  54.71  2.551  46.39  3.264  34.90  3.755  21.05  3.990  5.74  38 39  0.680  59.25  1.679  54.60  2.565  46.22  3.274  34.40  3.755  21.05  3.990  5.74  38 39  0.697  59.21  1.695  54.49  2.578  46.05  3.284  34.47  3.767  20.55  3.993  5.22  40 40  0.697  59.21  1.695  54.49  2.578  46.05  3.284  34.47  3.767  20.55  3.993  5.22  40 41  0.714  59.16  1.711  54.38  2.592  45.88  3.294  34.26  3.773  20.31  3.995  4.96  41 42  0.732  59.12  1.727  54.26  2.605  45.71  3.304  34.47  3.767  20.55  3.993  5.22  40 43  0.749  59.07  1.743  54.14  2.618  45.54  3.315  33.83  3.785  19.81  3.998  4.43  43 44  0.766  59.02  1.759  54.03  2.632  45.37  3.325  33.61  3.791  19.57  3.999  4.17  44 45  0.801  58.92  1.790  53.79  2.658  45.20  3.334  33.39  3.797  19.32  4.000  3.91  45 46  0.801  58.92  1.790  53.79  2.658  45.03  3.344  33.18  3.803  19.07  4.002  3.652  45 47  0.818  58.86  1.805  53.68  2.671  44.85  3.353  3.293  3.813  18.57  4.003  3.12  48 48  0.835  58.81  1.821  53.56  2.664  44.67  3.363  32.29  3.824  18.06  4.005  2.650  551  0.886  58.70  1.852  53.44  2.696  44.50  3.373  32.29  3.824  18.00  3.91  45 50  0.869  58.70  1.852  53.42  2.702  44.14  3.391  32.07  3.829  17.81  4.006  2.34  55 51  0.886  58.64  1.867  53.22  2.722  44.14  3.391  32.07  3.829  17.81  4.000  2.86  55 52  0.903  58.58  1.883  53.08  2.735  43.96  3.401  31.85  3.841  17.56														
32 0.560 59.54 I.567 55.34 2.469 47.37 3.202 36.17 3.717 22.51 3.979 7.31 32 33 0.577 59.50 1.583 55.24 2.483 47.21 3.213 35.97 3.724 22.27 3.981 7.95 33 34 0.594 59.46 1.599 55.13 2.497 47.05 3.224 35.73 3.731 22.03 3.983 6.79 34 35 0.611 59.42 1.615 55.03 2.511 46.88 3.234 35.54 3.737 21.78 3.985 6.53 35 0.629 59.38 1.631 54.92 2.525 46.72 3.244 35.33 3.743 21.54 3.985 6.27 36 37 0.646 59.34 1.647 54.82 2.538 46.55 3.254 35.12 3.749 21.29 3.988 6.00 37 38 0.663 59.30 1.663 54.71 2.551 46.39 3.264 34.90 3.755 21.05 3.990 5.74 38 39 0.680 59.25 1.679 54.60 2.565 46.22 3.274 34.69 3.761 20.80 3.992 5.48 39 0.680 59.25 1.679 54.60 2.565 46.22 3.274 34.69 3.761 20.80 3.992 5.48 39 0.680 59.25 1.679 54.60 2.565 46.22 3.274 34.69 3.761 20.80 3.992 5.48 39 0.693 7.74 59.16 1.711 54.38 2.592 45.88 3.294 34.26 3.773 20.31 3.995 4.96 41 0.714 59.16 1.711 54.38 2.592 45.88 3.294 34.26 3.773 20.31 3.995 4.96 41 42 0.732 59.12 1.727 54.26 2.605 45.71 3.304 34.04 3.779 20.06 3.996 4.70 42 43 0.749 59.07 1.743 54.14 2.618 45.54 3.315 33.83 3.785 19.81 3.998 4.43 43 4.70 5.766 59.02 1.759 54.03 2.632 45.37 3.325 33.61 3.791 19.57 3.999 4.17 44 0.766 59.02 1.759 54.03 2.632 45.37 3.325 33.61 3.791 19.57 3.999 4.17 44 0.766 59.02 1.759 54.03 2.632 45.37 3.325 33.61 3.791 19.57 3.999 4.17 44 0.788 58.97 1.774 53.91 2.658 45.20 3.334 33.39 3.797 19.32 4.000 3.91 45 46 0.801 58.92 1.790 53.79 2.658 45.03 3.344 33.18 3.803 19.07 4.002 3.65 46 47 0.818 58.86 1.805 53.68 2.671 44.85 3.354 32.96 3.808 18.82 4.003 3.38 47 88 49 0.852 58.76 1.836 53.42 2.709 44.52 3.334 3.329 3.293 3.824 18.06 4.005 2.365 45 50 0.869 58.52 1.888 53.42 2.761 43.36 3.344 3.18 3.849 17.56 4.007 2.08 55 50 0.968 58.64 1.867 53.20 2.742 44.14 3.391 32.29 3.824 18.06 4.005 2.34 55 50 0.903 58.58 1.883 53.08 2.735 43.96 3.401 31.85 3.834 17.56 4.007 2.08 55 50 0.937 58.40 1.929 52.79 2.773 43.42 3.428 31.18 3.849 17.50 4.000 1.03 56 50 0.937 58.40 1.924 52.82 2.761 43.61 3.419 31.41 31.845 17.07 4.008 1.55 54 55 0.937 58.40 1.929 52.79 2.773 43.42 3.428 31.18	- 12 -					A COLUMN TO THE REAL PROPERTY OF THE PERTY O	State of the Late		The second second	The second second	A 0.11		- C	DOM: 0.0076
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34         0.594         59.46         1.599         55.13         2.497         47.05         3.224         35.76         3.731         22.03         3.983         6.79         34           35         0.619         59.38         1.631         54.92         2.525         46.72         3.244         35.33         3.743         21.54         3.987         6.27         36           37         0.646         59.34         1.647         54.82         2.538         46.55         3.224         35.33         3.743         21.54         3.987         6.27         36           38         0.663         59.30         1.663         54.71         2.551         46.39         3.264         34.90         3.751         20.80         3.990         5.74         38           40         0.697         59.21         1.695         54.49         2.578         46.05         3.284         34.47         3.761         20.80         3.992         5.48         39           40         0.697         59.21         1.727         54.26         2.605         45.71         3.304         34.46         3.773         20.51         3.995         4.70         42         43         0.749	- TEN-		The state of the s						The second second	The state of the s	Company of the Company			200
36         0.629         59.38         1.631         54.92         2.525         46.72         3.244         35.33         3.743         21.54         3.987         6.27         36           37         0.646         59.34         1.647         54.82         2.538         46.55         3.254         35.12         3.749         21.29         3.988         6.00         37           38         0.663         59.30         1.663         54.71         2.551         46.39         3.264         34.90         3.755         21.05         3.990         5.74         38           39         0.680         59.21         1.695         54.49         2.578         46.05         3.284         34.47         3.767         20.55         3.992         5.48         39           40         0.697         59.12         1.727         54.26         2.605         45.71         3.304         34.26         3.773         20.31         3.995         4.96         41           42         0.732         59.12         1.727         54.26         2.605         45.71         3.304         34.94         3.773         20.31         3.995         4.96         41           43 <td< td=""><td></td><td>0.594</td><td></td><td></td><td>and the second second</td><td></td><td></td><td>Committee and Committee and Co</td><td></td><td>and the second second</td><td></td><td></td><td></td><td></td></td<>		0.594			and the second second			Committee and Co		and the second second				
37         0.646         59.34         1.647         54.82         2.538         46.55         3.254         35.12         3.749         21.29         3.988         6.00         37           38         0.663         59.30         1.663         54.71         2.551         46.39         3.264         34.90         3.755         21.05         3.990         5.74         38           39         0.680         59.25         1.679         54.60         2.565         46.22         3.274         34.69         3.761         20.80         3.992         5.48         39           40         0.697         59.21         1.695         54.49         2.578         46.05         3.284         34.47         3.767         20.55         3.995         4.96         41           41         0.714         59.16         1.711         54.38         2.592         45.88         3.294         34.26         3.773         20.31         3.995         4.96         41           42         0.732         59.02         1.743         54.14         2.618         45.54         3.315         33.83         3.785         19.81         3.998         4.43         43           44 <td< td=""><td></td><td>The second second</td><td></td><td></td><td>The second second</td><td></td><td>I MANAGEMENT OF THE PARTY OF TH</td><td></td><td></td><td></td><td>24 25 4 2 5 - 0</td><td></td><td>CONTRACTOR OF THE PARTY OF THE</td><td></td></td<>		The second second			The second second		I MANAGEMENT OF THE PARTY OF TH				24 25 4 2 5 - 0		CONTRACTOR OF THE PARTY OF THE	
38         0.663         59.30         1.663         54.71         2.551         46.39         3.264         34.90         3.755         21.05         3.990         5.74         38           39         0.680         59.25         1.679         54.60         2.565         46.22         3.274         34.69         3.761         20.80         3.992         5.48         39           40         0.697         59.21         1.695         54.49         2.578         46.05         3.284         34.47         3.767         20.55         3.993         5.22         40           41         0.714         59.16         1.711         54.38         2.592         45.88         3.294         34.26         3.773         20.31         3.995         4.96         41           42         0.732         59.12         1.727         54.26         2.605         45.71         3.304         34.04         3.773         20.31         3.995         4.96         41           43         0.749         59.07         1.743         54.14         2.618         45.57         3.334         33.39         3.797         19.32         4.000         3.91         45           45 <td< td=""><td>2000000</td><td>THE RESERVE OF THE PARTY OF THE</td><td>The state of the s</td><td></td><td></td><td>The second second</td><td>The second second</td><td>CARLON THE PARTY</td><td></td><td></td><td>The second second</td><td></td><td>and the second second</td><td></td></td<>	2000000	THE RESERVE OF THE PARTY OF THE	The state of the s			The second second	The second second	CARLON THE PARTY			The second second		and the second second	
40         0.697         59.21         1.695         54.49         2.578         46.05         3.284         34.47         3.767         20.55         3.993         5.22         40           41         0.714         59.16         1.711         54.38         2.592         45.88         3.294         34.26         3.773         20.31         3.995         4.96         41           42         0.732         59.12         1.772         54.26         2.605         45.71         3.304         34.04         3.779         20.06         3.996         4.70         42           43         0.749         59.07         1.743         54.14         2.618         45.54         3.315         33.83         3.785         19.81         3.998         4.43         43           44         0.766         59.02         1.774         53.91         2.645         45.54         3.315         33.83         3.785         19.81         3.998         4.43         43           45         0.783         58.97         1.774         53.91         2.645         45.20         3.334         33.18         3.803         19.97         19.32         4.000         3.91         45		E	The second second	Marine Street,	and the second second	A SHARLING THE RESERVE	The second second second	The second second	THE RESERVE AND ADDRESS OF THE PARTY OF THE		THE RESIDENCE	Control Control	The same of the sa	
41       0.714       59.16       1.711       54.38       2.592       45.88       3.294       34.26       3.773       20.31       3.995       4.96       41         42       0.732       59.12       1.727       54.26       2.605       45.71       3.304       34.04       3.779       20.06       3.996       4.70       42         43       0.749       59.07       1.743       54.14       2.618       45.54       3.315       33.83       3.785       19.81       3.998       4.43       43         44       0.766       59.02       1.759       54.03       2.632       45.37       3.325       33.61       3.791       19.57       3.999       4.17       44         45       0.783       58.97       1.774       53.91       2.665       45.20       3.334       33.18       3.803       19.07       4.002       3.65       46         47       0.818       58.86       1.855       53.68       2.671       44.85       3.354       32.96       3.808       18.82       4.003       3.12       48         49       0.852       58.76       1.856       53.42       2.696       44.50       3.373       32.21					54.60			3.274	34.69		20.80	3.992	5.48	39
42         0.732         59.12         1.727         54.26         2.605         45.71         3.304         34.04         3.779         20.06         3.996         4.70         42           43         0.749         59.07         1.743         54.14         2.618         45.54         3.315         33.83         3.795         19.81         3.998         4.43         43           44         0.766         59.02         1.759         54.03         2.632         45.37         3.325         33.61         3.791         19.57         3.999         4.17         44           45         0.783         58.97         1.774         53.91         2.645         45.20         3.334         33.39         3.797         19.57         3.999         4.17         44           46         0.801         58.92         1.790         53.79         2.658         45.03         3.344         33.18         3.803         19.07         4.002         3.65         46           47         0.818         58.86         1.821         53.56         2.684         44.67         3.363         32.73         3.813         18.57         4.003         3.12         48           49 <td< td=""><td></td><td>Name and Address of the Owner, where the Party of the Owner, where the Party of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Own</td><td></td><td>The second second</td><td></td><td>SCHOOL STATE</td><td></td><td>The second second</td><td>The second second</td><td></td><td>The second</td><td>The second second</td><td></td><td></td></td<>		Name and Address of the Owner, where the Party of the Owner, where the Party of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Own		The second second		SCHOOL STATE		The second second	The second second		The second	The second second		
43         0.749         59.07         I.743         54.14         2.618         45.54         3.315         33.83         3.785         19.81         3.998         4.43         43           44         0.766         59.02         I.759         54.03         2.632         45.37         3.325         33.61         3.791         19.57         3.999         4.17         44           45         0.783         58.97         I.774         53.91         2.658         45.20         3.334         33.39         3.797         19.32         4.000         3.91         45           46         0.801         58.92         I.790         53.79         2.658         45.03         3.344         33.18         3.803         19.07         4.000         3.65         46           47         0.818         58.86         I.805         53.68         2.671         44.85         3.354         32.96         3.808         18.82         4.003         3.38         47           48         0.835         58.76         I.836         53.44         2.696         44.50         3.373         32.51         3.819         18.57         4.003         3.12         48           49 <td< td=""><td>4-2-18</td><td>24 47 6 6</td><td></td><td>A CONTRACTOR OF THE PARTY OF TH</td><td>the second second second</td><td></td><td></td><td>700</td><td>ALTERNATION OF THE PARTY OF THE</td><td></td><td></td><td></td><td></td><td>7 2 7</td></td<>	4-2-18	24 47 6 6		A CONTRACTOR OF THE PARTY OF TH	the second second second			700	ALTERNATION OF THE PARTY OF THE					7 2 7
44         0.766         59.02         1.759         54.03         2.632         45.37         3.325         33.61         3.791         19.57         3.999         4.17         44           45         0.783         58.97         1.774         53.91         2.645         45.20         3.334         33.39         3.797         19.32         4.000         3.91         45           46         0.801         58.92         1.790         53.79         2.658         45.03         3.344         33.18         3.803         19.07         4.002         3.65         46           47         0.818         58.86         1.805         53.68         2.661         44.85         3.354         32.96         3.808         18.82         4.003         3.38 4           48         0.835         58.81         1.821         53.56         2.684         44.67         3.363         32.73         3.813         18.57         4.003         3.12 48           49         0.852         58.76         1.852         53.32         2.709         44.32         3.382         32.29         3.824         18.06         4.005         2.60         50           51         0.886         58.64	A COLUMN TO THE REAL PROPERTY.	Charles and the second	100 mg (100 mg (100 mg)	the second second second	11 C C C C C C C C C C C C C C C C C C	THE RESERVE TO SERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TRANSPORT OF THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	and the same of th	And the second second second				The second second		225100
46         0.801         58.92         1.790         53.79         2.658         45.03         3.344         33.18         3.803         19.07         4.002         3.65         46           47         0.818         58.86         1.805         53.68         2.671         44.85         3.354         32.96         3.808         18.82         4.003         3.38         47           48         0.835         58.81         1.821         53.56         2.684         44.67         3.363         32.73         3.813         18.57         4.003         3.12         48           49         0.852         58.76         1.836         53.44         2.696         44.50         3.373         32.51         3.819         18.31         4.004         2.86         49           50         0.869         58.70         1.852         53.32         2.709         44.32         3.382         32.29         3.824         18.06         4.005         2.60         50           51         0.886         58.64         1.867         53.20         2.722         44.14         3.391         32.07         3.829         17.81         4.006         2.34         51           52 <td< td=""><td>TABLE</td><td></td><td></td><td></td><td></td><td></td><td>45.37</td><td>Printer Street Street Street</td><td></td><td></td><td>19.57</td><td>3.999</td><td>Court Property</td><td>1000</td></td<>	TABLE						45.37	Printer Street Street Street			19.57	3.999	Court Property	1000
47       0.818       58.86       1.805       53.68       2.671       44.85       3.354       32.96       3.808       18.82       4.003       3.38       47         48       0.835       58.81       1.821       53.56       2.684       44.67       3.363       32.73       3.813       18.57       4.003       3.12       48         49       0.852       58.76       1.836       53.44       2.696       44.50       3.373       32.51       3.819       18.31       4.004       2.86       49         50       0.869       58.70       1.852       53.32       2.709       44.32       3.382       32.29       3.824       18.06       4.005       2.60       50         51       0.886       58.64       1.867       53.20       2.722       44.14       3.391       32.07       3.829       17.81       4.006       2.34       51         52       0.903       58.58       1.883       53.08       2.735       43.96       3.401       31.85       3.840       17.32       4.007       2.08       52         53       0.920       58.52       1.898       52.95       2.748       43.79       3.410       31.63	J F 100 19		0	The second second second			CONTRACTOR OF THE PARTY OF THE				ALL AND A SHOW W		F3 O 3	100
48       0.835       58.81       1.821       53.56       2.684       44.67       3.363       32.73       3.813       18.57       4.003       3.12       48         49       0.852       58.76       1.836       53.44       2.696       44.50       3.373       32.51       3.819       18.31       4.004       2.86       49         50       0.869       58.70       1.852       53.32       2.709       44.32       3.382       32.29       3.824       18.06       4.005       2.60       50         51       0.886       58.64       1.867       53.20       2.722       44.14       3.391       32.07       3.829       17.81       4.006       2.34       51         52       0.903       58.58       1.883       53.08       2.735       43.96       3.401       31.85       3.840       17.56       4.007       2.08       52         53       0.920       58.52       1.898       52.95       2.748       43.79       3.410       31.63       3.840       17.32       4.007       1.82       53         54       0.937       58.46       1.914       52.83       2.761       43.61       3.419       31.41							45.03			3.803		Secretary and the second		
49         0.852         58.76         1.836         53.44         2.696         44.50         3.373         32.51         3.819         18.31         4.004         2.86         49           50         0.869         58.70         1.852         53.32         2.709         44.32         3.382         32.29         3.824         18.06         4.005         2.60         50           51         0.886         58.64         1.867         53.20         2.722         44.14         3.391         32.07         3.829         17.81         4.006         2.34         51           52         0.993         58.58         1.883         53.08         2.735         43.96         3.401         31.85         3.834         17.56         4.007         2.08         52           53         0.920         58.52         1.898         52.95         2.748         43.79         3.410         31.63         3.840         17.32         4.007         1.82         53           54         0.937         58.46         1.914         52.83         2.761         43.61         3.419         31.41         3.845         17.07         4.008         1.55         54           55 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>The second secon</td><td></td><td>C I D C COAP</td><td></td><td></td><td></td></td<>									The second secon		C I D C COAP			
51         0.886         58.64         1.867         53.20         2.722         44.14         3.391         32.07         3.829         17.81         4.006         2.34         51           52         0.903         58.58         1.883         53.08         2.735         43.96         3.401         31.85         3.834         17.56         4.007         2.08         52           53         0.920         58.52         1.898         52.95         2.748         43.79         3.410         31.63         3.840         17.32         4.007         1.82         53           54         0.937         58.46         1.914         52.83         2.761         43.61         3.419         31.41         3.845         17.07         4.008         1.55         54           55         0.954         58.40         1.929         52.70         2.773         43.42         3.428         31.18         3.849         16.81         4.008         1.29         55         60         0.971         58.34         1.944         52.58         2.786         43.24         3.437         30.96         3.854         16.56         4.009         1.03         56           57         0.988		0.852		1.836	Control of the last		AND DESCRIPTION OF	And the second second	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN					
52         0.903         58.58         1.883         53.08         2.735         43.96         3.401         31.85         3.834         17.56         4.007         2.08         52           53         0.920         58.52         1.898         52.95         2.748         43.79         3.410         31.63         3.840         17.32         4.007         1.82         53           54         0.937         58.46         1.914         52.83         2.761         43.61         3.419         31.41         3.845         17.07         4.008         1.55         54           55         0.954         58.40         1.929         52.70         2.773         43.42         3.428         31.18         3.849         16.81         4.008         1.29         55           56         0.971         58.34         1.944         52.58         2.786         43.24         3.437         30.96         3.854         16.56         4.009         1.03         56           57         0.988         58.27         1.959         52.45         2.798         43.06         3.466         30.73         3.859         16.31         4.009         0.77         57           58 <td< td=""><td>50</td><td></td><td></td><td></td><td>53.32</td><td></td><td></td><td>3.382</td><td>32.29</td><td></td><td>Contract of the Contract of th</td><td></td><td>2.60</td><td>50</td></td<>	50				53.32			3.382	32.29		Contract of the Contract of th		2.60	50
53     0.920     58.52     1.898     52.95     2.748     43.79     3.410     31.63     3.840     17.32     4.007     1.82     53       54     0.937     58.46     1.914     52.83     2.761     43.61     3.419     31.41     3.845     17.07     4.008     1.55     54       55     0.954     58.40     1.929     52.70     2.773     43.42     3.428     31.18     3.849     16.81     4.008     1.29     55       56     0.971     58.34     1.944     52.58     2.786     43.24     3.437     30.96     3.854     16.56     4.009     1.03     56       57     0.988     58.27     1.959     52.45     2.798     43.06     3.446     30.73     3.859     16.31     4.009     0.77     57       58     1.005     58.20     1.975     52.32     2.811     42.87     3.455     30.51     3.863     16.05     4.009     0.50     58       59     1.022     58.14     1.990     52.19     2.823     42.69     3.463     30.28     3.868     15.80     4.009     0.24     59		2000	And the second second								TOTAL PROPERTY.			W. 2000 1
54     0.937     58.46     1.914     52.83     2.761     43.61     3.419     31.41     3.845     17.07     4.008     1.55     54       55     0.954     58.40     1.929     52.70     2.773     43.42     3.428     31.18     3.849     16.81     4.008     1.29     55       56     0.971     58.34     1.944     52.58     2.786     43.24     3.437     30.96     3.854     16.56     4.009     1.03     56       57     0.988     58.27     1.959     52.45     2.798     43.06     3.446     30.73     3.859     16.31     4.009     0.77     57       58     1.005     58.20     1.975     52.32     2.811     42.87     3.455     30.51     3.863     16.05     4.009     0.50     58       59     1.022     58.14     1.990     52.19     2.823     42.69     3.463     30.28     3.868     15.80     4.009     0.24     59	- A	and the same of the same of									Company of the Compan	The same of the same of	The second second	100
55     0.954     58.40     1.929     52.70     2.773     43.42     3.428     31.18     3.849     16.81     4.008     1.29     55       56     0.971     58.34     1.944     52.58     2.786     43.24     3.437     30.96     3.854     16.56     4.009     1.03     56       57     0.988     58.27     1.959     52.45     2.798     43.06     3.446     30.73     3.859     16.31     4.009     0.77     57       58     1.005     58.20     1.975     52.32     2.811     42.87     3.455     30.51     3.863     16.05     4.009     0.50     58       59     1.022     58.14     1.990     52.19     2.823     42.69     3.463     30.28     3.868     15.80     4.009     0.24     59	CONTRACTOR AND	CONTRACTOR OF THE PARTY OF THE		COLUMN TO SERVICE				Name and Address of the Owner, where the Parket of the Owner, where the Owner, which is the Owner, wh			the late of the la	THE PERSON NAMED IN	THE RESERVE NAME OF THE PARTY O	Decided to the last
57     0.988     58.27     1.959     52.45     2.798     43.06     3.446     30.73     3.859     16.31     4.009     0.77     57       58     1.005     58.20     1.975     52.32     2.811     42.87     3.455     30.51     3.863     16.05     4.009     0.50     58       59     1.022     58.14     1.990     52.19     2.823     42.69     3.463     30.28     3.868     15.80     4.009     0.24     59	55	0.954	58.40	1.929	52.70	2.773	43.42		31.18	3.849	16.81	4.008	1.29	55
58     1.005     58.20     1.975     52.32     2.811     42.87     3.455     30.51     3.863     16.05     4.009     0.50     58       59     1.022     58.14     1.990     52.19     2.823     42.69     3.463     30.28     3.868     15.80     4.009     0.24     59	The second second	at the second second second			CONTRACTOR AND ADDRESS OF THE PERSON NAMED IN			The second second	A THE RESERVE AND ADDRESS.			THE RESERVE OF THE PARTY OF THE		The second second
59 1.022 58.14 1.990 52.19 2.823 42.69 3.463 30.28 3.868 15.80 4.009 0.24 59		The Part of the last of the la						THE RESERVE OF THE PERSON NAMED IN	-					
	0000-0000	COLUMN TO SERVICE STATE OF THE PARTY OF THE		200		And the Late of th			The second second				C 10 C 10 C 10 C 10 C 10 C 10 C 10 C 10	40 THE Y
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α	6h,	18h	7 <sup>h</sup> ,	19h	8h,	20h	9 <sup>h</sup> ,	21h	10h	22h	IIh,	Contract of the last	α
m	+ A	-D+	+A-	-D+	malled hit	-D+	Section 18 and	-D+	STATE OF THE STATE	-D+	CALL THE WA	-D+	m
0	s 4.009	0,02	3.872	15.58	3.47I	30.08	s 2.834	42.53	s 2.003	52.08	s' 1.036	58.09	0
I	4.009	0.28	3.868	15.84	3.462	30.31	2.822	42.72	1.988	52.21	1.019	58.16	r
2	4.009	0.55	3.863	16.09	3.454	30.54	2.809	42.90	1.973	52.34	1.002	58.22	2
3	4.009	0.81	3.858	16.35	3.445	30.76	2.797	43.09	1.958	52.47	0.985	58.29	3
4	4.009	1.07	3.854	16.60	3.436	30.99	2.785	43.27	1.943	52.60	0.968	5.8.35	4
5	4.008	1.33	3.849	16.85	3.427	31.21	2.772	43.45	1.928	52.72	0.951	58.41	5
7	4.008	1.60	3.844	17.11	3.418	31.44	2.759	43.64	1.913	52.85	0.934	58.48	200
8	4.007	2.12	3.834	17.60	3.400	31.88	2.733	44.00	1.881	53.10	0.900	58.59	8
9	4.006	2.38	3.828	17.85	3.390	32.10	2.720	44.17	1.866	53.22	0.883	58.65	9
IO	4.005	2.64	3.823	18.10	3.380	32.32	2.707	44.35	1.850	53.34	6.866	58.71	'IO
II	4.004	2.90	3.818	18.35	3.371	32.54	2.694	44.53	1.835	53.46	0.849	58.77	II
12	4.003	3.17	3.812	18.60	3.361	32.77	2.681	44.70	1.819	53.58	0.832	58.82	12
13	4.003	3.43	3.807	18.86	3.352	32.99	2.668	44.88	1.804	53.70	0.815	58.87	13
14	4.002	3.69	3.802	19.11	3.343	33.21	2.655	45.05	1.789	53.82	0.798	58.93	14
15	3.000	3.95	3.796	19.50	3.333	33.43	2.642	45.22	I.773 I.757	53.93 54.05	0.781	58.98	15
17	3.999 3.998	4.21 4.48	3.784	19.85	3.323	33.86	2.615	45.40	1.741	54.16	0.746	59.03	17
18	3.996	4.74	3.778	20.09	3.303	34.08	2.602	45.73	1.725	54.28	0.729	59.13	18
19	3.995	5.00	3.772	20.34	3.293	34.30	2.589	45.90	1.709	54-39	0.712	59.17	19
20	3.993	5.26	3.766	20.58	3.283	34.51	2.576	46.07	1.693	54.50	0.695	59.22	20
21	3.992	5.52	3.760	20.83	3.273	34.73	2.563	46.24	1.677	54.61	0.678	59.26	21
22	3.990	5.78	3.754	21.08	3.263	34.94	2.549	46.41	1.661	54.72	0.661	59.31	22
23	3.988	6.05	3.748	21.33	3.253	35.15	2.536	46.58	1.645	54.83	0.643	59-35	23
24 25	3.98 <u>7</u> 3.98 <u>5</u>	6.31	3.742 3.736	21.57	3.243	35-37	2.523	46.74	1.629	54.94	0.626	59.39	24
26	3.983	6.57	3.730	22.06	3.232	35.58 35.79	2.495	46.91	1.597	55.04 55.15	0.592	59.43	25
27	3.981	7.09	3.723	22.31	3.211	36.00	2.481	47.24	1.581	55.25	0.574	59.51	27
28	3.979	7.35	3.716	22.55	3.201	36.21	2.467	47.40	1.565	55.36	0.557	59.55	28
29	3.976	7.61	3.710	22.79	3.190	36.41	2.453	47.56	1.549	55.46	9.539	59.58	29
30	3.974	7.87	3.703	23.03	3.179	36.62	2.439	47.72	1.533	55.56	0.522	59.62	30
31	3.972	8.13	3.696	23.27	3.169	36.83	2.425	47.88	1.517	55.66	0.505	59.65	31
32	3.969	8.39	3.690	23.52	3.158	37.04	2.412	48.04	1.501	55.76	0.487	59.68	32
33	3.967	8.65 8.91	3.683	23.76	3.147	37.25	2.398	48.20	1.484 1.468	55.86	0.470	59.72	33
34 35	3.965 3.962	9.17	3.669	24.00	3.137	37·45 37.66	2.370	48.51	I.452	55.95 56.04	0.453	59.75 59.77	34
36	3.959	9.43	3.662	24.48	3.115	37.86	2.356	48.66	1.436	56.14	0.418	59.80	36
37	3.956	9.69	3.654	24.72	3.104	38.07	2.341	48.82	1.419	56.23	0.401	59.83	37
38	3.953	9.94	3.647	24.96	3.093	38.27	2.327	48.97	1.403	56.33	0.383	59.85	38
39	3.950	10.20	3.640	25.19	3.081	38.47	2.313	49.12	1.386	56.42	0.366	59.88	39
40	3.947	10.46	3.632	25.43	3.070	38.67	2.298	49.27	1.370	56.51	0.348	59.90	40
4I	3.944	10.72	3.625	25.67	3.059	38.87	2.284	49.42	1.354	56.60	0.331	59.92	41
42	3.941	10.98	3.617 3.610	25.91 26.15	3.048	39.07	2.270	49.57	1.337	56.69	0.313	59.94 59.96	42
43 44	3.938 3.935	11.23	3.603	26.38	3.025	39.47	2.241	49.72	I.304	56.86	0.279	59.98	43
45	3.931	11.75	3.595	26.62	3.014	39.67	2.227	50.01	1.287	56.94	0.261	60.00	45
46	3.928	12.01	3.587	26.85	3.002	39.87	2.212	50.15	1.271	57.03	0.244	60.02	46
47	3.924	12.26	3.579	27.09	2.991	40.06	2.198	50.30	1.254	57.11	0.227	60.03	47
48	3.921	12.52	3.571	27.32	2.979	40.25	2.183	50.44	1.237	57.19	0.209	60.04	48
49	3.917	12.77	3.563	27.55	2.967	40.45	2.168	50.58	1.221	57.27	0.192	60.06	49
50	3.913	13.03	3.555	27.78	2.955	40.64	2.153	50.72	1.204	57.35	0.174	60.07	50
51	3.909	13.29	3.547	28.01 28.25	2.943	40.83	2.138	50.86 51.00	1.187	57.43 57.51	0.157	60.08	51 52
52 53	3.906	13.54	3.539 3.531	28.48	2.932	41.03	2.109	51.14	1.171	57.58	0.139	60.10	53
54	3.898	14.05	3.523	28.71	2.908	41.41	2,094	51.28	1.137	57.66	0.104	60.11	54
55	3.894	14.31	3.514	28.94	2.896	41.60	2.079	51.41	1.120	57.73	0.087	60.11	55
56	3.890	14.56	3.506	29.17	2.884	41.79	2.064	51.55	1.104	57.81	0.069	60.12	56
57	3.885	14.82	3-497	29.40	2.871	41.97	2.049	51.68	1:087	57,88	0.052	60.12	57
58	3.881	15.07	3.489	29.63	2.859	42.16	2.034	51.82	1.070	57.95	0.034	60.13	58
59	3.877	15.33	3.480	29.85	2.847	42.35	2.018	51.95	1.053	58.02	0.017	60.13	59
60	3.872	15.58	3.471	30.08	2.834	42.53	2.003	52.08	1.036	58.09	TO BELL	60.13	60

Übertragung von Sternörtern vom mittleren Äquinoktium 1947.0 auf das Normaläquinoktium 1950.0

				and the same	140		100				
α	В	α	α	В	ø.	C	ΔC	P	C	ΔC	P
h m	S	h m	h m	s	h m	s	s	s	s	s	s
0.0	+9.220	12 0	6 0	+9.220	18 0	0	e0.000	<i>e</i> 0.0000	350	e0.076	20,1909
10	9.220	10	10	9.220	10	10	000	0055	360	082	1963
20	9.220	20	20	9.220	20	20	000	0100	370	089	2018
30	9.220	30	30	9.220	30	30	000	0164	380	097	2072-
40	9.220	40	40	9.220	40	40	000	0218	390	104	2127
50	9.220	. 50	50	9.220	50	13 11 15			TO THE		22 0-
T 0	A THE STATE OF	** 0	7 0	+9.220	70.0	50	<i>e</i> 0.000	<i>e</i> 0.0273	400	<i>e</i> 0.113	60.2181
I 0	+9.220	13 0	7 0	9.220	19 0	60	000	0327	410	121	2236
20	9.220 9.220	20	20	9.220	20	70	100	0382	420	131	2290
	The state of the s			The second of	122 213	80	001	0436	430	140	2345
30	9.220	30	30	9.220 9.220	30	.90	001	0491	440	150	2399
40	9.220	40	40		40	100	€0.002	e0.0545	450	e0.161	e0.2454
50	9.220	50	50	9.220	50	110	002	0600	460	172	2508
2 0	+9.219	14 0	8 0	+9.220	20 0	120	003	0654	470	183	2563
10	9.219	10	10	9.220	10	130	004	0709	480	195	2617
20	9.219	20	20	9.220	20	140	005	0764	490	. 207	2672
30	9.219	30	30	9.220	30		20 006	e0.0818		20.000	20.0506
40	9.219	40	40	9.220	40	150	<i>e</i> 0.006		500	<i>e</i> 0.220	e0.2726
50	9.219	50	50	9.220	50	160	007	0873	510	234	2781
3 0	+9.219	15 0	90	+9.220	21 0	170	009	0927	520	248	2835
10	9.219	10	10	9,220	ío	180	010	0982	530	262	2890
20	9.219	20	20	9.220	20	190	012	1036	540	277	2944
30	9.219	30	30	9.220	30	200	20.014	<i>e</i> 0.1091	550	e0.293	e0.2999
40	9.219	40	40	9.220	40	210	016	1145	560	309	3053
50	9.219	50	50	9.220	50	220	019	1200	570	326	3107
100		100 - 100			ATE   TITE	230	022	1254	580	344	3162
4 0	+9.219	16 0	10 0	+9.220	22 0	240	. 025	1309	590	362	3216
20	9.220	10 20	20	9.220	20	250	e0.028	e0.1363	600	<b>e</b> 0.380	e0.3271
	9.220	April South	27.4	9.220	July 10 -	260	031	1418	610	400	3325
30	9.220	30	30	9.220	30 40	270	035	1473	620	420	3380
40	9.220	40	50	9.220	50	280	039	1527	630	440	3434
50	(SU) -553	50	50	9.220	50	290	043	1582	640	462	3489
5 0	+9.220	17 0	II O	+9.220	23 0	290		16 152 5		ALC: NO PERSON NO	3409
10	9.220	10	10	9.220	10	300	<i>e</i> 0.048	e0.1636	650	eo.484	eo.3543
20	9.220	20	20	9.220	20	310	053	1691	660	506	3598
30	9.220	30	30	9.220	30	320	058	1745	670	529	3652
40	9.220	40	40	9.220	40	330	063	1800	680	553	. 3707
50	9.220	50	50	9.220	50	340	069	1854	690	578	3761
6 o	+9.220	18 0	12 0	+9.220	24 0	350	<i>e</i> 0,076	<b>e</b> 0.1909	700	e0.604	e0.3815

e bedeutet: Vorzeichen entgegengesetzt dem Vorzeichen des Arguments.

$$a_{1950} = a_{1947} + B + C + \Delta C$$
, wobei  $C = A$ . tg  $(\delta_{1947} + D)$   
 $\delta_{1950} = \delta_{1947} + D + R$ , wobei  $R = A$ . P

A und D sind aus der Tafel S. 288\* u. 289\* mit dem Argument  $\alpha_{1947}$  zu entnehmen. Für die Werte von  $\alpha$  zwischen oh und 12h gelten die Vorzeichen zur Linken, für die Werte von  $\alpha$  zwischen 12h und 24h die Vorzeichen zur Rechten. B,  $\Delta C$  und P sind in der obenstehenden Tafel enthalten. Die Vorzeichen von  $\Delta C$  und P sind dem Vorzeichen von C entgegengesetzt.

# Finsternisse, Trabanten

Konstellationen, Hilfstafeln
1947

### Sonnen- und Mondfinsternisse 1947

Im Jahre 1947 finden zwei Sonnenfinsternisse und eine Mondfinsternis statt.

#### I. Totale Sonnenfinsternis 1947 Mai 20 unsichtbar in Berlin

Weltzeit

+ 4 45

Konjunktion in Rektaszension ...... Mai 20, 13 35

*		45 50.46	
	to be and the	2 28,66	
		45 50.46	
	alexandra	9.99	
		0 / "	
	+19	30 8.6	
	+	11 22.0	50 60
	+19	52 30.5	
	+	31.7	
		, ,	THE REAL PROPERTY.
		60 16.1	
nne		8.7	
		, , , ,	
	100000	AND THE RESERVE TO SERVE THE PARTY OF THE PA	
		15 48.2	
Wel	100 TO 10	Westl. Länge von Greenwich	Geogr. Breite
Moiss		66 10	0 /
		PERSONAL PROPERTY.	-29 44
	MALE TO STATE OF THE PARTY OF T	77 46	-36 30
	13 35.1	24 40	— I 59
	15 25.3	323 3	- 2 13
	Mai 20, ,, tag . ,,	Weltzeit  Mai 20, 11 10.8  , 12 9.5 tag , 13 35.1	2 28,66 3 45 50.46 9.99

#### Verlauf der Zentrallinie

Ende der Finsternis .....

16 23.9

335

Weltzeit	Westl. Länge von Greenwich	Geogr. Breite Dauer der Totalität		Weltzeit	Westl. Länge . von Greenwich	Geogr. Breite	Dauer der Totalität	
h m	0 /	0 /	m s	h m	0 /	0 /	m s	
12. 9.5	77 46	-36 30	-	14 0	17 50.6	+2 4.9	5 13.5	
12 10	71 43.9	-34 4.2	2 22.8	14 10	14 55.4	+3 22.3	5 9.9	
12 15	60 1.8	-28 15.9	2 51.3	14 15	13 23.7	+3 56.3	5 6.8	
12 20	54 26.0	-24 54.1	3 8.8	14 20	11 48.5	+4 27.1	5 2.8	
12 25	50 25.2	-22 13.8	3 23.1	14 25	10 9.2	+4 54.5	4 58.0	
12 30	47 13.0	-19 56.3	3 35.7	14 30	8 25.2	+5 18.3	4 52.3	
12 35	44 31.2	-17 54.I	3 47.1	14. 35	6 35.5	+5 38.1	4 45.7	
12 40	42 10.1	-16 3.I	3 57.5	14 40	4 39.1	+5 5.3.5	4 38.2	
12 45	40 4.0	-14 21.0	4 7.2	14 45	2 34.7	+6 4.1	4 29.9	
12 50	38 9.1	-12 46.0	4 16.1	14 50	0 20.6	+6 9.3	4 20.6	
12 55	36 22.7	-11 17.1	4 24.4	14 55	357 54.5	+6 8.1	4 10.3	
13 0	34 43.0	<b>- 9 53.4</b>	4 32.1	15 0	355 13.2	+5 59.2	3 59.0	
13 10	31 38.6	<b>-</b> 7 19.8	4 45.7	1,5 5	352 11.6	于5 40.7	3 46.5	
13 20	28 47.0	- 5 1.7	4 56.7	15 10	348 41.1	+5 9.3	3 32.6	
13 30	26 2.5	<b>- 2 57.0</b>	5 5.3	15 15	344 25.7	+4 18.7	3 16.7	
13 40	23 20.7	— I 4.8	5 11.0	15 20	338 44.8 1	+2 53.7	2 57.4	
13 50	20 37.9	+ 0 35.8	5 13.9	15 25	327 12.6	-0 44.0	2 24.8	
14 0	17 50.6	+ 2 4.9	5 13.5	15 25.3	323 3	-2 13		

Die Finsternis ist sichtbar in Südamerika mit Ausnahme des nordwestlichsten Teiles, im mittleren und südlichen Teil des Atlantischen Ozeans, in Afrika, in Arabien und an der Westküste von Madagaskar.

Elemente der totalen Sonnenfinsternis 1947 Mai 20

Weltzeit	x	у	log sin d	log cos d	μ	l(a)	[(i)
h m		5000000000	14547899		0 / #	0705	
11 10	-1.313869	-0.808684	9.531036	9.973382	348 24 8.8	+0.535907	-0.009960
20	1.223339	0.778548	9.531065	9.973378	350 54 9.3	0.535903	0.009964
30	1.132802	0.748418	9.531095	9.973374	353 24 9.9	0.535899	0,009968
40	1.042259	0.718292	9.531124	9.973371	355 54 10.4	0.535894	0.009973
50	0.951711	0.688171	9.531153	9.973367	358 24 10.9	0.535888	0.009979
12 0	-0.861157	-0.658055	9.531183	9.973363	0 54 11.4	+0.535881	-0.009985
10	0.770598	0.627944	9.531212	9.973359	3 24 11.9	0.535874	0.009992
20	0.680033	0.597838	9.531242	9.973355	5 54 12.5	0.535866	0.010000
30	0.589464	0.567738	9.531271	9.973351	8 24 13.0	0.535857	0.010008
40	0.498890	0.537643	9.531300	9.973348	10 54 13.5	0.535848	0.010017
50	0.408312	0.507553	9.531329	9.973344	13 24 14.0	0.535838	0.010027
13 0	-0.317729	-0.477469	9.531358	9.973340	15 54 14.5	+0.535828	-0.010038
10	0.227143	0.447390	9.531388	9.973336	18 24 15.0	0.535817	0.010049
20	0.136553	0.417317	9.531417	9.973333	20 54 15.6	0.535805	0.010061
30	-0.045959	0.387250	9.531447	9.973329	23 24 16.1	0.535792	0.010074
40	+0.044638	0.357188	9.531476	9.973325	25 54 16.6	0.535779	0.010087
50	0.135237	0.327133	9.531505	9.973321	28 24 17.1	0.535765	0.010101
14 0	+0.225839	-0.297084	9.531535	9.973317	30.54 17.6	+0.535750	-0.010116
10	0.316444	0.267041	9.531564	9.973313	33 24 18.1	0.535735	0.010131
20	0.407051	0.237004	9.531593	9.973310	35 54 18.7	0.535719	0.010147
30	0.497659	0.206973	9.531622	9.973306	38 24 19.2	0.535702	0.010164
40	0.588269	0.176949	9.531652	9.973302	40 54 19.7	0.535685	0.010181
50	0.678881	0.146931	9.531681	9.973298	43 24 20.2	0.535667	0.010199
15 0	+0.769494	-0.116919	9.531710	9.973294	45 54 20.7	+0.535648	-0.010218
10	0.860108	0.086914	9.531740	9.973290	48 24 21.2	0.535628	0.010237
20	0.950723	0.056916	9.531769	9.973286	50 54 21.7	0.535608	0.010257
30	1.041338	-0.026925	9.531798	9.973283	53 24 22.2	0.535587	0.010278
40	1.131953	+0.003059	9.531827	9.973279	55 54 22.8	0.535565	0.010300
50	1.222568	0.033036	9.531856	9.973275	58 24 23.3	0.535543	0.010322
16 0	+1.313183	+0.063005,	9.531885	9.973271	60 54 23.8	+0.535520	-0.010345
10	1.403797	0.092967	9.531914	9.973268	63 24 24.3	0.535496	0.010369
20	1.494411	0.122922	9.531943	9.973264	65 54 24.8	0.535472	0.010393
30	+1.585024	+0.152870	9.531973	9.973260	68 24 25.3	+0.535447	-0.010418

Weltzeit	x'	y' ·	$\log \tan g f^{(a)}$	log tang f(i)	
h m					
11 0	+0.0090521	+0.0030143	7.66461	7.66244	
12 Q	0.0090557	0.0030113	7.66461	7.66244	
13 0	0.0090584	0.0030081	7.66460	7.66243	
14 0	0.0090603	0.0030046	7.66460	7.66243	
15 0	0.0090613	0.0030008	7.66459	7.66243	
16 0	0.0090614	0.0029966	7.66459	7.66242	
17 0	+0.0090607	+0.0029920	7.66459	7.66242/	

#### II. Partielle Mondfinsternis 1947 Juni 3 unsichtbar in Berlin

Opposition in Rektaszension	Juni 3, 19 42 18.0 Weltzeit
Del-termanaion des Mondes	h m s 16 43 36.07
Rektaszension des Mondes	
Stündliche Änderung	2 8.14
Rektaszension der Sonne	4 43 36.07
Stündliche Änderung	10.26
	0 , "
Deklination des Mondes	-23 12 17.0
Stündliche Änderung	<b>–</b> 6 37.5
Deklination der Sonne	+22 17 8.8
Stündliche Änderung	+ 18.7
Äquatorialhorizontalparallaxe des Mondes	54 29.8
Jan Camar	8.7
,, der sonne	0.7
TT-11	, ,,
Halbmesser des Mondes	14 50.2
" der Sonne	15 46.0
	h m
Eintritt des Mondes in den Halbschatten	Juni 3, 16 48.7 Weltzeit
Eintritt des Mondes in den Kernschatten	,, 18 56.4 ,,
Mitte der Finsternis	,, 19 15.3 ,,
Austritt des Mondes aus dem Kernschatten	,, 19 34.2 ,,
Austritt des Mondes aus dem Halbschatten	,, 21 41.8 ,,

Der Mond steht zu den Zeiten der ersten und letzten Berührung mit dem Kernschatten im Zenit der Orte, deren geographische-Lage ist:

Die Finsternis ist sichtbar in Afrika mit Ausnahme des westlichen Teiles, im Osten und Südosten Europas, in Asien mit Ausnahme des nördlichen und nordöstlichen Teiles, im Indischen Ozean, in Australien und im Südlichen Eismeer.

#### III. Ringförmige Sonnenfinsternis 1947 November 12 unsichtbar in Berlin

		h m s	
Konjunktion in Rektaszension	Nov. 12,	19 48 32.3 V	Veltzeit
		h m s	
Rektaszension des Mondes		15 8 31.72	
Stündliche Änderung		2 6.54	
Rektaszension der Sonne		15 8 31.72	
Stündliche Änderung	1	10.17	
		0 / "	
Deklination des Mondes	_	17 15 29.1	
Stündliche Änderung	S Sweet	11 34.9	
Deklination der Sonne		17 38 5.4	
Stündliche Änderung		40.9	12 14 18
		, ,	
Äquatorialhorizontalparallaxe des Mondes		56 25.2	
der Sonne		8.9	
	A	, ,	
Halbmesser des Mondes		15 21.7	
,, der Sonne		16 9.7	
	Weltzeit	Westl. Länge von Greenwich	Geogr. Breite
Af 1. Tr:	h m	0 ,	0 /
Anfang der Finsternis Nov. 12		160 17	+33 35
Beginn der zentralen Verfinsterung,	18 20.4	172 59	+41 5
Zentrale Verfinsterung im wahren Mittag . ,,	19 48.5	121 6	+66
Ende der zentralen Verfinsterung,	21 50.0	61 39	+ 0 34
Ende der Finsternis	22 56.5	75 47	- 7 II

#### Verlauf der Zentrallinie

Weltzeit	Westl. Länge von Greenwich	Geogr. Breite	Dauer der ringförm. Verfinsterung	Weltzeit	Westl. Länge von Greenwich	George. Breite	Dauer d. ringförm. Verfinsterung
h m		. ,	m s	h m		ó /	m s
18 20.4	172 59	+41 5	<u> </u>	20 10	116 17.0	+2 5.2	4 0.3
18 25	156 12.9	+34 4.9	3 25.0	20 20	113 57.4	+0 27.5	4 1.9
18 30	150 5.9	+30 38.9	3 27.8	20 30	111 30.5	-ı ı.ı	4 2.8
₱ 18 35	145 54.4	+27 56.8	. 3 30.2	20 40	108 53.0	-2 20.0	4 2.8
18 40	142 39.2	+25 37.8	3 32.3	20 45	107 29.1	-255.5	4 2.6
18 45	139 58.2	+23 33.9	3 34.3	20 50	106 1.0	-3 28.2	4 2.0
18 50	137 40.1	+21 40.8	3 36.2	20 5.5	104 27.9	-3 58.0	4 1.2
18 55	135 38.8	+19 56.2	3 38.0	21 0	102 49.0	-4 24.5	4 0.2
19 0	133 50.0	+18 18.5	3 39.8	21 5	101 3.3	-4 47.4	3 58.9
19 5	132 10.8	+16 46.5	3 41.5	21 10	99 9.6	-5 6.4	3 57.2
19 10	130 39.3	+15 19.3	3 43.3	21 15	97 6.0	-5 20.7	3 55.4
19 15	129 13.8	+13 56.4	3 45.0	21 20	94 50.2	-5 29.6	3 53.2
19 20	127 53.1	+12 37.4	3 46.6	21 25	92 19.0	-5 32.0	3 50.7
19 25	126 36.3	+11 21.8	3 48.2	21 30	89 27.3	-5 26.2	3 47.8
19 30	125 22.6	+10 9.4	3 49.8	21 35	86 6.6	-5 9.3	3 44.4
19 40	123 1.8	+ 7 53.4	. 3 52.9	21 40	82 0.4	-4 35.7	3 40.5
19 50	120 46.2	+ 5 47.8	3 55.7	21 45	76 25.5	-3 31.2	3 35.6
20 0	118 32.3	+ 3 51.9	3 58.2	21 50	63 7.5	+0 5.5	3 26.1
20 10	116 17.0	+ 2 5.2	4 0.3	21 50.0	61 39	+0 34	-

Die Finsternis ist sichtbar in Nordamerika mit Ausnahme des nordöstlichen Teiles, in Mittelamerika, in Südamerika mit Ausnahme des östlichen und des südlichen Teiles und im Stillen Ozean.

Weltzeit

h m

20

30

40

50

x

-1.304351

1.222100

1.139845

1.057586

0.975324

## Sonnen- und Mondfinsternisse 1947

 $\log \sin d$ 

9.4807071

9.480751n

9.480794n

9.480837n

9.480881n

y

+0.913786

0.881455

0.849128

0.816805

0.784486

Elemente der ringförmigen Sonnenfinsternis 1947 November 12

log cos d

9.979163

9.979159

9.979154

9.979150

9.979145

1(0)

+0.559802

0.559832

0.559861

0.559890

0.559918

μ

81 27 45.1

83 57 45.1

86 27 45.1

88 57 45.1

91 27 45.1

1(1)

+0.013816

0.013846

0.013875

0.013904

0.013932

2000	22		DESCRIPTION OF THE PARTY OF THE	200	College Sec.	- 20			(90304)			
18 O	-0	0.893059	+0.752171	9.480924n	9.97914	41	93 57	45.1	+0.	559946	+0.013959	
10	(	0.810791	0.719860	9.480968n	9.97913	37	96 27		0.	559973	0.013986	
20	(	0.728519	0.687554	9:481011n	9.97913	32	98 57	45.1	0.	559999	0.014012	
30	0	0.646244	0.655253	9.481054n	9.97912	28	101 27	45.0	0.	560025	0.014038	
40		5.563967	0.622957	9.481097n	9.97912	23	103 57	45.0	0.	560050	0.014063	
50	(	0.481687	0.590665	9.481141n	9.97911	19	106 27	45.0	0.	560075	0.014087	
19 0	-0	0.399405	+0.558379	9.481184n	9.97911	15	108 57	45.0	+0.	560099	+0.014111	
10		0.317121	0.526097	9.481227n	9.97911		111 27			560122	0.014134	
20		0.234835	0.493820	9.481271n	9.97910		113.57			560145	0.014157	
30		0.152546	0.461548	9.481314n	9.97910	0.000	116 27			560167	0.014179	
40	200	0.070256	0.429281	9.481357n	9.97909		118 57			560189	0.014200	
50		0.012035	0.397019	9.481400n	9.97909	0.000 miles	121 27			560210	0.014221	
20 0	+0	0.094327	+0.364763	9.481444n	9.97908	88	123 57	45.0	+0.	560230	+0.014241	
10	45U 34500	0.176621	0.332512	9.481487n	9.97908	Mary Control of the	126 27		200.00	560250	0.014261	
20		0.258916	0.300266	9.481530n	9.97907		128 57			560269	0.014280	
30	100,000	0.341211	0.268026	9.481573n	9.97907	M 100 TO 100 TO 100 TO 100 TO 100 TO 100 TO 100 TO 100 TO 100 TO 100 TO 100 TO 100 TO 100 TO 100 TO 100 TO 100	131 27	A DOLL OF MANY		560287	.0.014298	
40		0.423507	0.235791	9.481616n	9.97907	OLD DOT N	133 57		100000000	560305	0.014316	
50		0.505803	0.203562	9.481659n	9.97906	1000	136 27			560322	0.014333	
21 0	80,000	0.588100	CONTRACTOR OF THE PARTY.	9.481702n	DOMESTICAL PROPERTY.	3157		PRODUCTION	1000110		A CONTRACTOR OF THE PARTY OF TH	
10		0.588100	+0.171339.	9.481702n $9.481746n$	9.97906		138 57			560339	+0.014350	
20	OUT TO SERVICE STATE OF THE PARTY OF THE PAR	THE RESERVE AND ADDRESS OF	0.139121	9.481740n $9.481789n$	9.9790	200000	141 27			560355	0.014366	
Children or the Control of	90 8000	0.752694	0.106909		9.9790		143 57			560371	0.014381	
30	000 00000	0.834990	0.074704	9.481832n	9.97904		146 27		100000000000000000000000000000000000000	560386	0.014396	
40	ACC   100 NO.	0.917286	0.042504	9.481875n	9.97904		148 57			560400	0.014410	
50	B 300	0.999582	+0.010310	9.481918n	9.97904	2023	151 27	1100	198	560414	0.014424	
22 0	PCF 6294.30	1.081877	-0.021878	9.481961n	9.9790	THE RESERVE OF THE PARTY OF THE		+0.560427		+0.014437		
. 10		1.164171	0.054060	9.482004n	9.9790				A COLUMN TO A COLUMN TO A POST OF		0.014450	
20	900 Burico	1.246464	0.086235	9:482047n	9.97902	030000000000000000000000000000000000000	7 158 57 44.7		0.560452		0.014462	
30		1.328756	0.118404	A CONTRACTOR OF THE PROPERTY O			161 27			560463	0.014473	
40	COLUMN TO SERVICE SERV	1.411047	0.150567	9.482133n	9.9790		163 57		A DATE OF THE PARTY OF THE PART	560474	0.014484	
50		1.493336	0.182723	9.482176n	9.9790	14	166 27	44.6	0.	560484	0.014494	
23 0	+	1.575622	-0.214873	9.482220n	9:9790	10	168 57	44.6	+0.	560493	+0.014503	
Welt	zeit		x'	y'		1975	log tan	or t(a)	4000	log	tang f(i)	
100 Contract						93335	rob our	<b>6 1</b>	200	208		
17	m O,	+0.0	0082244	-0.0032	228	OKA	7.67	112	1		.67225	
18	0		0082267	0.0032	COMPANY OF THE PARK OF	3	7.67				.67225 .67225	
19	0	A ST COLUMN TO THE OWNER.	0082283	0.0032	COOK TOWNS TO SERVICE	26	7.67		E di		.67226	
20	0	CONTRACTOR OF THE PARTY OF THE	0082293	0.0032	ACCUSATION NOT AN ARCHITECTURE	1			04		.67226	
21	0	NO. SECTION ASSESSMENT OF THE PARTY OF THE P	0082297	0.0032	The second second	248	7.67443				.67227	
22	0	THE RESERVE OF THE PARTY OF THE	0082294	0.0032		1	7.67443 7.67444				.67227	
23			0082285	-0.0032		3875	7.67		1958			
A STATE OF THE PARTY OF THE PAR	STEEL SE			0.0032	-4/	3.70	1.0/2	144	E 200	7,67228		

Totale Sonnenfinsternis

Zu S. 292\*





0h Weltzeit			Mondber	wegung		Lage des Mondäquators gegen den Erdäquator					
Weltze	eit	ಒ	L	$\tilde{\omega}_{\mathbb{C}}$	M <sub>《</sub>	i	Δ	ಿ.	⊿_೮		
1947	7		6					0			
Jan.	-1	70.2561	356.6987	86.523	270.176	22.970	253.665	356.287	3.413		
	+9	69.7266	128.4626	87.637	40.826	22.957	253.126 539	356.207	3.404		
	19	69.1971	260.2266	88.751	171.476	22.943	252.587 539	356.308	3.394		
	29	68,6675	31.9906	89.865	302.126	22.930	252.048 539	356.319	3.384		
Febr.	8	68.1380	163.7546	90.979	72.776	22.916 14	251.508 540 540	356.330 12	3.374 11		
	18	67.6084	295.5185	92.093	203.426	22.903	250.968	356.342	3.363 ,,		
	28	67.0789	67.2825	93.207	334.076	22.009	250.427 541	356.354	3.352		
März	10	66.5494	199.0465	94.321	104.726	22.876 13	249.880	356.366	3.341		
	20	66.0198	330.8104	95.435	235.375	22.803	249.345	350.379	3.329		
	30	65.4903	102.5744	96.549	6.025	22.849 13	248.803 541	356.392	3.318 13		
April	9	64.9607	234.3384	97.663	136.675	22.836	248.262	356.406	3.305		
	19	64.4312	6.1023	98.777	267.325	22.823	247.720	356.419	3.293		
	29	63.9017	137.8663	99.891	37.975	22.810	247.177	350.433	3.280		
Mai	9	63.3721	269.6303	101.005	168.625	22.707	240.035	350.448	3.207		
	19	62.8426	41.3942	102.119	299.275	22.784 13	246.092 543	356.463	3.254		
	29	62.3130	173.1582	103.233	69.925	22.771	245.549	356.478	3.240		
Juni	8	61.7835	304.9222	104.347	200.575	22.758 13	245.005 544	356,493 16	3.226 14		
	18	61.2540	76.6861	105.461	331.225	22:745	244.462 543	356.509 16	3.212 15		
	28	60.7244	208.4501	106.575	101.875	22.732 13	243.918 544	356.525	3.197		
Juli	8	60.1949	340.2141	107.689	232.525	22.719 13	243.373 545	356.541	3.182 15		
	18	59.6654	111.9780	108,803	3.175	22.707	242.829	356.558	3.167		
	28	59.1358	243.7420	109.917	133.825	22.004	242.204	350.575	3.152		
Aug.	7	58,6063	15.5060	111.032	264.474	22,682	241.738 545	356.592	3.136		
	17	58.0767	147.2699	112.146	35.124	22,669	241.193	356.610	3.120		
	27	57.15472	279.0339	113.260	165.774	22,657 12	240.647 546	356.628 18	3.103 16		
Sept.	6	57.0177	50.7979	114.374	296.424	22.645	240.101	356.646	3.087		
70.7.10	16	56.4881	182.5618	115.488	67.074	22.632	239.554 547	356.664	3.070 18		
a Clark	26	55.9586	314.3258	116.602	197.724	22.620	239.007	356.683	3.052		
Okt.	6	55.4290	86.0898	117.716	328.374	22,608	238,460 547	356.703	3.035		
	16	54.8995	217.8538	118.830	99.024	22.596	237.913 547 548	356.722 20	3.017		
	26	54.3700	349.6177	119.944	229.674	22,584	237.365	356.742	2.999 18		
Nov.	5	53.8404	121.38'17	121.058	0.324	22.572	230.817	356.762	2.981		
	15	53.3109	253.1457	122.172	130.974	22.560	230,209	356.782	2.902		
NOT DELL	25	52.7813	THE RESERVE THE PARTY OF THE PARTY.	THE REAL PROPERTY AND ADDRESS.	261,624	1 22 FAX		356.803	2.943		
Dez.	5	52.2518	156.6736	124.400	32.274	22.536	235.172 549	356.824 21	2.924 20		
1000	15	51.7223	288.4376	125.514	162.924	22.525	234.623	356.845	2.904 20		
6520	25	FOR THURSDAY	THE RESIDENCE AND DESCRIPTION OF THE PERSON	Street, Married Street, Square,  293.573	22.513 11	234.074	356.867	2.884 20			
	35	50.6632	191.9655	127.742	The second second	22.502	233.524 550	356.889 22	2.864		

## Jupitertrabanten 1947

Verfinsterungen: E. = Eintritte, A. = Austritte (in Weltzeit)

TRA	BANT I		TRA	BANT I	Tight.	TRA	BANT I	14	TRABANT I		
で 意思でいる	h m	100	33314	h m	1	-4/	h m		3118	h m	
Jan. 2	14 16.2	E.	März28	12 53.2	E.	Juni 21	13 47.2	A.	Sept. 14	12 46.2	A.
4	8 44.6	E.	30	7 21.5	E.	23	8 16.0	A.	16	7 14.9	A.
6	3 12.9	E.	April 1	I 49.7	<b>E</b> .	25	2 44.5	Α.	18	I 43.7	Α.
7	21 41.3	E.	2	20 18.0	<b>E</b> .	26	21 13.1	A.	19	20 12.4	A.
9	16 9.6	E.	4	14 46.3	E.	28	15 41.8	A.	21	14 41.2	A.
II	10 38.0	<b>E</b> .	6	9 14.6	<b>E</b> .	30	10 10.4	Α.	23	9 9.9	A.
13	.5 6.2	E.	8	3 43.0	<b>E</b> .	Juli 2	4 39.1	A.	25	3 38.8	A.
14	23 34.6	E.	9	22 11.2	E.	3	23 7.7	A.	26	22 7.5	A.
16	18 2.8	E.	II	16 39.4	E.	5	17 36.4	Α.	28	16 36.3	A.
18	12 31.2	<b>E</b> .	13	11 7.8	<b>E</b> .	7	12 5.0	A.	30	11 5.0	A.
20	6 59.5	E.	15	5 36.1	<u>E</u> .	9	6 33.8	Α.	Okt. 2	5 33.8	A.
/ 22	1 27.8	E.	17	0 4.4	E.	II	I 2.4	A.	4	0 2,5	<b>A</b> .
23	19 56.0	E.	, 18	18 32.7	E.	12	19 31.1	<b>A.</b>	5	18 31.3	A.
25	14 24.4	<b>E</b> .	20	13 I.I	<b>E</b> .	14	13 59.8	A.	7	13 0.0	A.
27	8 52,6	E.	22	7 29.4	E.	16	8 28.5	A.	9	7 28.9	Α.
29	3 20.9	E.	24	I 57.7	E.	18	2 57.2	<b>A</b> .	II	1 57.6	A.
30	21 49.2	E.	25	20 26.1	E.	19	21 25.9	A.	12	20 26.4	A.
Febr. 1	16 17.5	E.	27	14 54.4	<b>E</b> .	21	15 54.6	A.	14	14 55.0	A.
3	10 45.7	E.	29	9 22.8	E.	23	10 23.4	A.	16	9 23.8	A.
5	5 14.0	E.	Mai 1	3.51.2	E.	25	4 52.1	A.	18	3 52.5	A.
6	23.42.2	E.	2	22 19.5	E.	26	23 20.8	A.	19	22 21.3	A.
8	18 10.5	E.	4	16 48.0	E.	28	17 49.5	A.	21	16 50.0	A.
10.	12 38.8	E.	6	11 16.4	E.	30	12 18.3	A.	23	11 18.8	A.
12	7 7.0	E.	8	5 44.7	E.	Aug. 1	6 47.0	Α.	25	5 47.5	A.
14	I 35.2	E.	10	0 13.1	E.	3	1 15.8	A.	27	0 16.2	A.
15	20 3.5	E.	II	18 41.6	E.	4	19 44.5	A.	28	18 44.9	Α.
17	14 31.8	E.	13	13 10.0	E.	6	14 13.3	A.	30	13 13.7	A.
19	9 0.0	E.	15	9 48.0	A.	8	8 42.0	A.	Nov. 1	7 42.3	A.
21	3 28.2	E.	17	4 16.5	Α.	10	3 10.8	A.	3	2 11.1	A.
22	21 56.5	E.	18	22 44.9	A.	II	21 39.5	A.	4	20 39.7	A.
24	16 24.7	E.	20	17 13.4	A.	13	16 8.3	A.	6	15 8.5	Α.
26	10 53.0	E.	22.	11 41.9	Α.	15	10 37.0	A.			14/6
28	5 21.2	E.	24	6 10.4	A.	17	5 5.8	A.	1970		100
März 1	23 49.5	E.	26	0 38.9	Α.	18	23 34.5	A.	123 3		
3	18 17.7	E.	27	19 7.4	A.	20	18 3.3	A.			16-17
5	12 46.0	E.	29	13 35.9	A.	22	12 32.1	A.			
7	7 14.2	E.	31	8 4.4	<b>A</b> .	24	7 0.9	A.		T) 4 3 T (T) T	
9	1 42.4	E.	Juni 2	2 32.9	Α.	26	1 29.6	A.	TRA	BANT I	
10	20 10.7	E.	3	21 1.5	A.	27	19 58.4	A.		h m	
12	14 38.9	E.	5	15 30.0	A.	29	14 27.2	A.	Dez. 19	0 24.0	E.
14	9 7.1	E.	7	9 58.5	<b>A</b> .	31	8 56.0	A.	20	18 52.5	E.
16	3 35.4	E.	9	4 27.1	<b>A</b> .	Sept. 2	3 24.7	A.	22	13 21.1	E.
17	22 3.6	E.	10	22 55.6	A.	3	21 53.5	<b>A</b> .	24	7 49.6	E.
19	16 31,9	E.	12	17 24.2	A.	5	16 22.2	A.	26	2 18.2	E.
21	11 0.1	E.	14	11 52.8	A.	7	10 51.1	<b>A</b> .	27	20 46.7	E.
23	5 28.4	E.	16	6 21.4	A.	9	5 19.8	<b>A</b> .	29	15 15.3	E.
24	23 56.7	E.	18	0 50.0	A.	10	23 48.6	A.	31	9 43.8	E.
26	18 24.9	E.	. 19	19 18.6	A.	12	18 17.3	A.	33	4 12.3	E.

# Jupitertrabanten 1947

Verfinsterungen: E. = Eintritte, A. = Austritte (in Weltzeit)

mm 4	DANIEL TI		mp.	DANES II		MD 4 I	A NUM TO		MD ADANIM TIT			
TKA	BANT II	350	TRABANT II			TRAI	BANT II	3/8	TRABANT III			
Jan. 2	h m 2 4.9	E.	Juni 21	h m 18 55.0	A.	Jan. 6	h m	E.	Juli 11	h m 18 56.6	Ė.	
5	15 22.1	E.	25	8 13.8	A.	6	13 56.4	A.	II	21 5.3	A.	
9	4 39.1	E.	28	21 31.9	A.	13	15 52.6	E.	18	22 55.5	E.	
12	17 56.3	E.	Juli 2	10 50.8	A.	13	17 53.4	A.	19	I 4.7	A.	
16	7 13.4	E.	6	0 8.9	A.	20	19 50.0	E.	26	2 54.1	E.	
19	20 30.7	E.	9	13 27.6	A.	20	21 50.8	A.	26	5 4.0	A.	
23	9 47.7	E.	13	2 45.7	A.	27	23 47.3	E.	Aug. 2	6 52.8	E.	
26	23 5.2	E.	16	16 4.4	A.	28	1 48.2	A.	2	9 3.3	A.	
30	12 22.2	E.	20	5 22.5	A.	Febr. 4	3 45.2	E.	9	10 52.1	E.	
Febr. 3	1 39.8	E.	23	18 41.2	A.	4	5 46.2	A.	9	13 3.2	A.	
6	14 56.9	E.	27	7 59.2	A.	II	7 42.5	E.	16	14 51.2	E.	
10	4 14.5	Ε.	30	21 17.8	A.	II	9 43.6	A.	16	17 3.0	A.	
13	17 31.7	E.	Aug. 3	10 35.8	A.	18	11 39.6	E.	23	18 51.0	E.	
17	6 49.4	E.	6	23 54.3	Α.	18	13 40.9	A.	23	21 3.5	A.	
20	20 6,6	E.	10	13 12.3	A.	25	15 36.4	E.	30	22 50.1	E.	
24	9 24.5	E.	14	2 30.6	A.	25	17 37.8	A.	31	I 3.3	A.	
27	22.41.7	E.	17	15 48.5	A.	März 4	19 33.2	E.	Sept. 7	2 49.2	Ε.	
März 3	11 59.6	E.	21	5 6.8	A.	4	21 34.7	A.	7	5 3.1	A.	
7	I 17.0	E.	24	18 24.7	A.	.11	23 30.4	E.	14	6 47.9	E.	
10	14 35.0	E.	28	7 42.8	A.	12	I 32.2	A.	14	9 2.6	A.	
14	3 52.3	E.	Sont 4	21 0.6	A. A.	19	3 27.6	E. A.	21	10 46.7	E. A.	
17 21	6 27.9	E. E.	Sept. 4	10 18.6	A.	19 26	5 29.6 7 25.5	E.	21	13 2.1	E.	
24	19 46.2	E.	7	23 36.4	A.	26	9 27.7	A.	28	17 2.1	A.	
28	9 3.6	E.	15	2 12.1	A.	April 2	11 22.9	E.	Okt. 5	18 45.0	E.	
31	22 22.0	E.	18	15 29.8	A.	2	13 25.4	A.	OE0. 5	21 1.9	A.	
April 4	11 39.5	E.	22	4 47.5	A.	9.	15 20.2	E.	12	22 44.6	E.	
8	0 58.0	Ē.	25	18 5.2	A.	9	17 23.0	A.	13	I 2.3	A.	
II	14 15.6	E.	29	7 22.7	A.	16	19 17.3	E.	20	2 43.5	E.	
15	3 34.I	E.	Okt. 2	20 40.3	A.	16	21 20.4	A.	20	5 2.1	A.	
18	16 51.8	E.	6	9 57.8	A.	23	23 14.5	E.	27	6 42.3	E.	
22	6 10.4	E.	9	23 15.2	A.	24	1 17.9	A.	27	9 1.7	A.	
25	19 28.2	E.	13	12 32.7	A.	Mai 1	3 12.3	E.	Nov. 3	13 1.0	A.	
29	8 46.9	E.	17	1 50.0	A.	8	7 10.1	E.		7-7-1		
Mai 2	22 4.7	E.	20	15 7.3	A.	15	11 8.6	E.	100 B	AT THE		
6	11 23.4	E:	24	4 24.6	A.	15	13 13.2	A.		h m		
10	0 41.3	E.	27	17 41.9	A.	22	17 11.8	A.	Dez. 23	14 30.4	E.	
13	14 0.2	E.	31	6 59.1	A.	29	21 10.4	A.	30	18 28.3	E.	
17	5 50.4	A.	Nov. 3	20 16.2	A.	Juni 5	23 2.8	Ε.	1000	ALCOHOLD STATE		
20	19 9.2	A.	7	9 33.3	A.	6	1 8.8	A.	1 100			
24	8 27.2	A.			3,0	13	3 0.9	E.				
27	21 46.0	A.	1000	-350	7.80	13	5 7.4	A.	TRA	BANT IV	7	
Juni 4	11 4.1	A.	Dor	h m	E.	20	6 59.6	E.	1000	rd nicht		
Juni 4	0 23.0	A.	Dez. 19	22 25.4	E.	20	9 6.6	A. E.		rfinstert.		
7	13 41.0	A.	23	0 58.8	E.	27	10 58.3	A.	ve	mistert.		
11	16 18.0	A. A.	27	14 15.5	E.	Juli 4	13 5.8	E.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
18		A.	30		E.	4	17 5.8	A.	SPE LO			
10	3 30.9	IA	34	3 32.3	1 10.	4	1 1/ 5.0	n.	1000		18 15	

0 <sup>h</sup> Weltzeit	α	β	pα	а	b	U'	В'	P'			
1947		15 15 15 15									
Jan3	20.20	18.32	-0.02	45.50	-14.45	319.345	<b>—</b> 19.673	-20.915			
+5	20.35	18.46	-o,or	45.84	14.73	319.641	19.580	21.012			
13	20.46	18.57	0.00	46.08	14.99	319.937	19.486	21,108			
21	20.52	18.63	0.00	46.21	15.2,2	320.232	19.392	21.203			
29	20.52	18.64	0.00	46.23	15.42	320.527	19.297	21.298			
Febr. 6	20.48	18.60	0.00	46.13	-15.57	320.821	-19.202	-21.392			
14	20.39	18.52	+0.01	45.92	15.67	321.115	19.106	21.486			
22	20,25	18.40	0.01	45.61	15.72	321.408	19.010	21.579			
März 2	20.07	18.24	0.02	45.20	15.71	321.701	18.914	21.671			
10	19.86	18.05	0.03	44.72	15.65	321.994	18.817	21.762			
·18	19.62	17.84	+0.04	44.19	-15.54	322.286	-18.720	-21.853			
26	19.36	17.61	0.05	43.60	15.38	322.578	18,622	21.943			
April 3	19.09	17.36	0.05	42.99	15.19	322.869	18.524	22.033			
11	18.81	17.11	0.05	42.37	14.96	323.160	18.425	22,122			
19	18.54	16.86	0.06	41.75	14.70	323.450	18.326	22.210			
27	18.27	16.61	+0.06	41.14	-14.42	323.740	-18.227	-22.298			
Mai 5	18.01	16.37	0.05	40.56	14.13	324.030	18.127	22.385			
13	17.76	16.14	0.05	40.00	13.83	324.319	18.027	22.471			
21	17.53	15.93	0.04	39.48	13.52	324.608	17.926	22.556			
29	17.32	15.73	0.04	39.00	13.21	324.896	17.825	22.641			
Juni 6	17.12	15.55	+0.03	38.57	-12.89	325.184	-17.724	-22.725			
14	16.95	15.39	0.03	38.18	12.58	325.471	17.622	22.809			
22	16.80	15.25	0.02	37.85	12.28	325.758	17.520	22.892			
30	16.68	15.13	0.01	37.57	11.98	326.044	17.417	22.974			
Juli 8	16.58	15.03	10,0	37.34	11.69	326.330	17.314	23.055			
16	16.50	14.95	+0.01	37.17	-11.41	326.616	-17.211	-23.136			
24	16.45	14.90	0,00	37.05	11.14	326.901	17.107	23.216			
Aug. 1	16.42	14.87	0.00	36.99	∠10.88	327.186	17.003	23.296			
9	16.42	14.86	0,00	36.98	10.63	327.471	16.899	23.375			
17	16.44	14.87	0.00	37.03	10.40	327.755	16.794	23.453			
25	16.49	14.91	0.00	37.14	-10.18	328.039	-16.689	-23.530			
Sept. 2	16.56	14.96	-0.01	37.30	9.98	328.322	16.584	23.607			
10	16.66	15.04	0,01	37.52	9.80	328.605	16.478	23.683			
18	16.78	15.15	0.02	37.79	9.63	328.887	16.372	23.758			
0kt. 4	16.92	15.27	0.02	38.11	9.49	329.169	16.266	23.833			
CONTRACTOR OF THE PARTY OF THE	17.09	15.42	-0.03	38.49	- 9.38	329.451	-16.159	-23.907			
12	17.28	15.59	0.04	38.92	9.29	329.732	16.052	23.980			
20	17.49	15.77	0.04	39.39	9.23	330.013	15.944	24.053			
Nov. 5	17.72	15.97	0.05	39.91	9.20	330.293	15.836	24.125			
	·17.96 18.22	16.19	0.05	40.46	9.20	330.573	15.728	24.196			
13	18.49	16.42	-0.05	41.04	- 9.24	330.853	-15.620	-24.267			
21	The Part of the Pa	16,66	0.05	41.64	9.31	331.132	15.511	24.337			
Dez. 7	18.76	16.91 17.15	0.05	42.26 42.87	9.42	331.411	15.402	24.407			
THE TOTAL STREET	19.03	THE RESERVE OF THE PARTY OF THE	0.05	43.46	9.57	331.089	15.293	24.476 24.544			
15	19.29	17.39	0.04	44.02	9.75 9.96	Company of the Compan	15.103	24.544			
23 31	VACUUS CONTRACTOR IN THE	17.82	-0.03		-10.21	332.244	-14.963	<b>-24.677</b>			
31	19.77	17.02	-0.03	44.53	10.21	332.521	14.903	-24.0//			

I de la constante	a framework	-01-14					THE PROPERTY OF		ALCOHOLD !
0h Weltzeit	U	В	P	$\log \frac{(\Delta)}{\Delta}$	0 <sup>h</sup> Weltzeit	U	В	P	$\log \frac{(\Delta)}{\Delta}$
1947	0			The Control	1947	. 0		0	TAN SERVE
Jan3	4.182	-18.520	-7.067	0.06312	Juni 30	4.441	-18.596	-7.066	9.97989
+1	3.930	18.626	7.072	0.06485	Juli 4	4.903	18.422	7.056	9.97849
5	3.660	18.738	7.078	0.06635	8	5.374	18.242	7.046	9.97725
. 9	3.375	18.854	7.083	0.06761	12	5.851	18.059	7.035	9.97616
13	3.077	18.975	7.089	0.06862	16	6.334	17.873	7.023	9.97523
17	2.768	-19.099	-7.094	0.06937	20	6.822	-17.683	-7.011	9.97.446
21.	2.452	19.225	7.100	0.06985	24	7.313	17.491	6.998	9.97385
25	2,131	19.351	7.105	0.07006	28	7.807	17.296	6.984	9.97341
29	1.809	19.477	7.111	0.06999	Aug. 1	8.302	17.100	6.970	9.97312
Febr. 2	1.488	19.600	7.116	0.06966	5	8.797	16.902	6.956	9.97300
6	1.172	-19.721	-7.120	0.06905	9	9.291	-16.704	-6.941	9.97305
10	0.863	19.838	7.125	0.06819	13	9.784	16.505	6.925	9.97325
14	0.564	19.951	7.129	0.06707	17	10.274	16.305	6.909	9.97363
18	0.278	20.058	7.132	0.06570	21	10.760	16,106	6.893	9.97416
22	0,008	20.159	7.135	0.06410	25	11.242	15.908	6.876	9.97486
26	359.756	-20.252	-7.138	0.06227	. 29	11.717	-15.712	6,860	9.97573
März 2	359.524	20.337	7.140	0.06023	Sept. 2	12.185	15.518	6.843	9.97675
6	359.314	20.414	7.142	0.05801	6	12.645	15.326	6,826	9.97793
10	359.128	20.482	7.144	0.05561	10	13.096	15.137	6.808	9.97926
14	358.967	20.541	7.146	0.05305	14	13.537	14.952	6.791	9.98076
18	358.832	-20.590	-7.147	0.05035	18	13.966	-14.771	-6.774	9.98240
22	358.725	20.630	7.148	0.04752	22	14.384	14.595	6.757	9.98419
26	358.647	20.659	7.148	0.04458	26\	14.788	14.425	6.740	9.98613
30	358.598	20.678	7.149	0.04156	30	15.177	14.261	6.724	9.98820
April 3	358.578	20,686	7.149	0.03847	Okt. 4	15.551	14.103	6 708	9.99040
7	358.587	-20.685	-7.149	0.03532	8	15.908	-13.952	-6.692	9.99274
II.	358.626	20.673	7.149	0.03214	12	16,248	. 13.809	6.677	9.99520
15	358.694	20.651	7.148	0.02894	16	16.569	13.674	6,663	9.99777
19	358.790	20.619	7.147	0.02573	20	16.871	13.547	6.650	0.00045
23	358.914	20.578	7.146	0.02253	24	17.151	13.430	6.637	0.00323
27	359.066	-20.527	-7.145	0.01935	28	17.410	-13.323	-6.625	0.00610
Mai 1	359.245	20.466	7.144	0.01621	Nov. 1	17.647	13.227	6.614	0.00905
5	359.450	20.396	7.142	0.01312	5	17.860	13.141	6.604	0.01207
9	359.680	20.317	7.140	0.01008	9	18.049	13.067	6.595	0.01515
13	359.933	20.229	7.137	0.00711	13	18.212	13.005	6.588	0.01827
17	0.210	-20.133	-7.134	0.00423	17	18,349	-12.955	-6.581	0.02143
21	0.508	20.028	7.131	.0.00143	21	18.460	12,918	6.576	0.02460
. 25	0.827	19.915	7.127	9.99873	25	18.544	12.893	6.572	0.02778
29	1,166	19.795	7.122	9.99613	29	18,601	12.881	6.570	0.03094
Juni 2	1.523	19.668	7.117	9.99365	Dez. 3	18.630	12.882	6.569	0.03407
6	1.898	-19.533	-7.112	9.99129	7	18.632	-12.896	-6.569	0.03716
10	2,289	19.392	7.106	9.98905	II	18,606	12,923	6.571	0.04019
14	2.694	19.244	7.099	9.98694	15	18.552	12.963	6.574	0.04313
18	3.113	19.090	7.092	9.98496	19	18.471	13.016	6.579	0.04597
22	3.545	18.931	7.084	9.98312	23	18.364	13.081	6.584	0.04869
.26	3.988	18.766	7.075	9.98143	27	18.231	13.157	6.591	0.05128
30		-18.596	<i>−</i> 7.066	9.97989	31	18.073	<b>-13.244</b>	6.599	0.05371

The second second	h tzeit	L	М	L	М	L	L	М	L	М
		MIN	IAS	ENCELA	ADUS	TETHYS	DIO	NE	RHE	A
19	47					•			10000	•
Jan.	- 3	317.040	110,02	197.885	90.0	323.312	333.464	311.8	15.319	213.4
	+13	308.848	85.82	81.588	328.3	134.482	278.022	255.0	210.359	48.4
	29	300.656	61,62	325.289	206.6	305.652	222.580	198.3	45.398	243.4
Febr.	14	292,465	37.42	208,989	84.9	116.821	167.139	141.4	240.438.	78.4
März	2	284.274	13.21	92.688	323.2	287.991	111.697	84.6	75.477	273.4
See Line	18	276.084	349.00	336.385	201.5	99.161	56.256	27.9	270.517	108.4
April	3	267.895	324.80	220.082	79.8	270.331	0.814	331.0	105.556	303.4
	19	259.706	300.60	103.777	318.1	81.501	305.373	274.3	300.596	138.4
Mai	5	251.517	276.40	347.471	196.4	252.671	249.931	217.5	135.635	.333.3
	21	243.330	252.20	231.164	74.7	63.841	194.490	160.7	330.675	168.3
Juni	6	235.143	227.99	114.856	312.9	235.011	1.39.049	104.0	165.714	3.3
F 44		1 100 118				The same	S 1-1	- 25	1	200
Okt.	12	169.665	34.41	264.368	59.2	164.368	55.520	9.6	286.031	123.2
	28	161.483	10.21	148.055	297.5	335.537	0.079	312.8	121.070	318.2
Nov.	13	153.302	346.02	31.742	175.8	146.707	304.639	256.1	316.109	153.1
	29	145.121	321.82	275.428	54.1	317.876	249.198	199.3	151.149	348.1
Dez.	1.5	136.941	297.63	159.115	292.3	129.046	193.757	142.5	346.188	183.1
	31	128.761	273.43	42,802	170.6	300.215	138.316	85.7	181.228	18.1
	47	120.582	249.24	286,488	48.9	111.384	82.875	29.0	16.267	213.0
		1 - 1 - 1		1.3 Un 15	the to	-	1 7000	3 30	P. San E San	089

2 1031			The second	40 KM _ 100		3.4	Manifest		1 - 1 -
	h - tzeit	L	М	L	М	e	log a	L	М
		TIT	AN		НҮРЕ	12	JAPETUS		
19	47	•	•					0	
Jan.	<b>—</b> 3	266.770	83.94	281.466	128.64	0.11992	2.32964	142,490	187.91
	13	268.003	85.15	193.510	41.39	0.12001	2.32974	•215.099	260.51
	29	269.236	86.36	105.456	314.04	0.12018	2.32987	287.709	333.11
Febr.	14	270.468	87.57	17.271	226.57	0.12042	2.33003	0.318	45.71
März	2	271.701	88.78	288.930	138.93	0.12075	2.33021	72.927	118.31
	18	272.934	89.99	200.411	51.10	0.12114	2.33041	145.537	190.92
April	3	274.167	91.20	111.695	323.08	0.12155	2.33062	218.146	263.52
	19	275.399	92.40	22.766	234.84	0.12198	2.33086	290.756	336.12
Mai	5	276.632	93.61	293.618	146.35	0.12243	2.33108	3.365	48.72
	21	277.865	94.82	204.249	57.62	0.12289	2.33133	75.974	121,32
Juni	6	279.098	96.03	114.658	328.68	0.12334	2.33155	148.584	193.93
								1	
Okt.	12	288.960	105.71	111.924	330.83	0.12458	2.33256	9.459	54.74
	28	290.192	106.92	21,231	240.74	0.12433	2.33254	82,069	127.34
Nov.	13	291,425	108.13	290.567	150.69	0.12400	2.33248	154.678	199.95
	29	292,658	109.33	199.970	60.71	0.12353	2,33238	227.287	272.55
Dez.	15	293.891	110.54	109.471	330.83	0,12299	2.33226	299.897	345.15
	31	295.123	111.75	19.099	241.07	0.12237	2.33209	12.506	57.75
	47	296.356	112.96	288.882	151.48	0.12167	2.33191	85,116	130.35

Bewegung der mittleren Länge L und der mittleren Anomalie M

Zoit	Mir	nas	Encel	adus	Tethys Dione		Rhe	ea	Tit	an	Japetus		
Zeit	L	М	L	М	L	L	М	L	М	L	М	L	М
15 15				0		0 -							9
d \ I	21,9884	20,988	262,7309	262,39	190,6982	131,5349	131,45	79,6900	79,69	22,5770	22,576	4,5381	4,537
2	43,9769	41,975	165,4619	164,79	21,3963	263,0699	262,90	159,3799	159,38	45,1541	45,151	9,0762	9,075
3	65,9653	62,963	68,1928	67,18	212,0945	34,6048	34,35	239,0699	239,06	67,7311		13,6143	13,612
4	87,9538	83,950	330,9238	329,58	42,7926	166,1398	165,80	318,7599	318,75	90,3081		18,1524	18,150
5	109,9422	104,938	233,6547	231,97	233,4908	297,6747	297,25	38,4498	38,44	112,8852	112,878	22,6905	22,687
6	131,9306	125,925	136,3856	134,36	64,1889	69,2096	68,70	118,1398	118,13	135,4622	135,454	27,2286	27,225
7	153,9191	146,913	39,1166	36,76	254,8871	200,7446	200,15	197,8298	197,81	158,0392	158,029	31,7667	31,762
8	175,9075	167,900	301,8475	299,15	85,5852	332,2795		277,5197		180,6162		36,3047	36,300
9	197,8959	188,888	204,5784	201,54	276,2834	103,8144		357,2097		203,1933		40,8428	40,837
10	219,8844	209,875	107,3094	103,94	106,9816	235,3494	234,50	76,8997		225,7703	10 0 to 10 To 10	45,3809	45,375
11	241,8728	230,863	10,0403	6,33	297,6797	6,8843		156,5897		248,3473	-	49,9190	49,912
12	263,8613	251,850	272,7713	268,72	128,3779	138,4193	137,40	236,2796		270,9244		54,4571	54,450
13	285,8497	272,838	175,5022	171,12	319,0760	269,9542		315,9696		293,5014		58,9952	58,987
14	307,8381	293,825	78,2331	73,51	149,7742	41,4891	40,30	35,6596		316,0784	316,059	63,5333	63,525
15	351,8150	314,813	340,9641 243,6950	238,30	340,4723	173,0241 304,5590	171,75	195,0395		338,6555 361,2325		68,0714 72,6095	68,062 72,600
93.9	351,0150	335,000	243,0950	230,30	171,1705	304,5590	303,20	-93,0393	193,00	301,2325	301,210	72,0095	72,000
	0		0	0	0		a		0		0	- 0	
d o,r	38,1988	38,098	26,2731	26,24	19,0698	13,1535	13,14	7,9690	7,97	2,2577	2,258	0,4538	0,454
0,2	76,3977	76,198	52,5462	52,48	38,1396	26,3070	26,29	15,9380	15,94	4,5154	4,515	0,9076	0,907
0,3	114,5965	114,296	78,8193	78,72	57,2094	39,4605	39,43	23,9070	23,91	6,7731	6,773	1,3614	1,361
0,4	152,7954	152,395	105,0924	104,96	76,2793	52,6140	52,58	31,8760	31,88	9,0308	9,030	1,8152	1,815
0,5	190,9942	190,494	131,3655	131,20	95,3491	65,7675	65,72	39,8450	39,84	11,2885	11,288	2,2690	2,269
0,6	229,1931	228,593	157,6386	157.44	114,4189	78,9210	78,87	47,8140	47,81	13,5462	13,545	2,7229	2,722
0,7	267,3919	266,691	183,9117	183,68	133,4887	92,0745	92,01	55,7830	55,78	15,8039	15,803	3,1767	3,176
0,8	305,5908	304,790	210,1848	209,92	152,5585	105,2279	105,16	63,7520	63,75	18,0616	18,060	3,6305	3,630
. 0'0	343,7896	342,889	236,4578	236,15	171,6283	118,3814	118,30	71,7210	71,72	20,3193	20,318	4,0843	4,084
1,0	381,9884	380,988	262,7309	262,39	190,6982	131,5349	131,45	79,6900	79,69	22,5770	22,576	4,5381	4,537
		En 19	1001-			15-15-	- 24	51133	6 18	35 38	Market W	133	
d		0		2,62				0	0 /	0	0	•	٥
0,01	3,8199 7,6398	3,810 7,620	2,6273 5,2546	5,25	1,9070 3,8140	1,3153 2,6307	2,63	0,7969	0,80	0,2258	0,226	0,0454	0,045
0,03	11,4596	11,430	7,8820	7,87	5,7209	3,9460	3,94	2,3907	1,59	0,4515	0,452	0,0908	0,136
0,04	15,2795	15,239	10,5093	10,50	7,6279	5,2614	5,26	3,1876	2,39 3,19	0,9031	0,903	0,1815	0,181
0,05	19,0994	19,049	13,1366	13,12	9,5349	6,5767	6,57	3,9845	3,19	1,1289	1,129	0,2269	0,227
0,06	22,9193	22,859	15,7639	15,74	11,4419	7,8921	7,89	4,7814	4,78	1,3546	1,355	0,2723	0,272
0,07	26,7392	26,669	18,3913	18,37	13,3489	9,2074	9,20	5,5783	5,58	1,5804	1,580	0,3177	0,318
0,08	30,5591	30,479	21,0186	20,99	15,2559	10,5228	10,52	6,3752	6,38	1,8062	1,806	0,3630	0,363
0,09	34,3790	34,289	23,6459	23,62	17,1628	11,8381	11,83	7,1721	7,17	2,0319	2,032	0,4084	0,408
0,10	38,1988	38,099	26,2732	26,24	19,0698	13,1535	13,14	7,9690	7,97	2,2577	2,258	0,4538	0,454
	200	1 - 5 3	1/35	7	4 - V	E 4 35	7 1 3	760 51		The same	41-17	1. 35%	
d		0	٥	0		٥	. 0	σ	•	•		•	0
0,001	0,3820	0,381	0,2627	0,26	0,1907	0,1315	0,13	0,0797	0,08	0,0226	0,023	0,0045	0,005
0,002	0,7640	0,762	0,5255	0,52	0,3814	0,2631	0,26	0,1594	0,16	0,0452	0,045	0,0091	0,000
0,003	1,1460	1,143	0,7882	0,79	0,5721	0,3946	0,39	0,2391	0,24	0,0677	0,068	0,0136	0,014
0,004	1,5280	1,524	1,0509	1,05	0,7628	0,5261	0,53	0,3188	0,32	0,0903	0,090	0,0182	0,018
0,005	2,2919	2,286	1,3137	1,57	0,9535	0,0577	0,79	0,3984	0,40	0,1129	0,113	0,0227	0,023
0,007	2,6739	2,667	1,8391	1,84	1,3349	0,9207	0,92	0,5578	0,40	0,1355	0,135	0,0272	0,027
0,008	3,0559	3,048	2,1019	2,10	1,5256	1,0523	1,05	0,6375	0,64	0,1806	0,150	0,0318	0,036
0,009	3,4379	3,429	2,3646	2,36	1,7163	1,1838	1,18	0,7172	0,72	0,2032	0,203	0,0408	0,041
0,010	3,8199	3,810	THE RESERVE	2,62			1,31			The second second	0,226	The second	0,045
Bank I	2-3- 2	A STATE OF	18 10 10 1	1 10 16	5 13	7//- 1-4	F 1934		F 140		1352 LX	7.0	1 317

# Saturnstrabanten 1947

0h				ð			γ	N	I	ω		
Weltz	eit	Mimas	Encel.	Tethys	Dione	Rhea	Rhea	1	Saturnsring			
194	7				a		0	۰	a			
Jan	- 3	81.1	107.9	131.6	83.9	161.6	21.25	128,290	6.703	41.584		
	+13	65.1	101.2	128.4	82,6	161.2	21,24	128,292	6.703	41.583		
	29	49.1	94.6	125.3	81.2	160.8	21.23	128,293	6.703	41.582		
Febr.	14	33.I	87.9	122.1	79.8	160.3	21.22	128.295	6.702	41.580		
März	2	, I7.I	81.2	118.9	78.5	159.9	21.20	128.297	6.702	41.579		
	18	I,I	74.5	115.8	77.1	159.5	21.19	128.299	6.702	41.578		
April	3	345.1	67.8	112.6	75.8	. 159.1	21.18	128.301	6.702	41.577		
	19	329.1	61.1	109.4	74.4	158.6	21.16	128.303	6.702	41.575		
Mai	5	313.1	54.4	106.3	73.0	158.2	21.15	128.305	6.701	41.574		
	21	297.1	47.7	103.1	71.7	157.8	21.14	128.306	6.701	41.573		
Juni	6	281.1	41.0	99.9	70.3	157.3	21.13	128.308	6.701	41.571		
	22	265.1	34.3	96.8	68.9	156.9	21.12	128.310	6.701	41.570		
Juli	8	249.1	27.7	93.6	67.6	156.4	21,10	128.312	6.701	41.569		
	24	233.1	21.0	90.4	66.2	156.0	21.09	128.314	6.700	41.567		
Aug.	9	217.1	14.3	87.3	64.9	155.6	21.08	128.316	6.700	41,566		
	25	201,1	7.6	84.1	63.5	155.2	21.06	128.318	6.700	41.565		
Sept.	10	185.1	0.9	80.9	62,2	154.7	21.05	128.319	6.700	41.564		
9000	26	169.1	354.2	77.8	60.8	154.3	21.04	.128.321	6.700	41.562		
Okt.	12	153.1	347.5	74.6	59.4	153.9	21.02	128.323	6,699	41.561		
	28	137.1	340.8	71.4	58.1	153.4	21.01	128.325	6.699	41.560		
Nov.	13	121.1	334.1	68.3	56.7	153.0	21.00	128.327	6.699	41.558		
	29	105.1	327.4	65.1	55.4	152.6	20.99	128.329	6.699	41.557		
Dez.	15	89.0	320.7	61.9	54.0	152.1	20.97	128.330	6,699	41.556		
	31	73.0	314.0	58.8	52.6	151.7	20.96	128.332	6.698	41.554		
	47	57.0	307.4	55,6	51.3	151.3	20.94	128.334	6.698	41.553		

 $\log \frac{1}{1+\zeta}$  in Einheiten der 5. Dezimale

· u-	• <i>u—U</i>		Encel.	Tethys	Dione	Rhea	и— <b>U</b>	
0 <sup>0</sup> 10 20 30 40	360 <sup>0</sup> 350 340 330 320	-6+ -6+ -5+ -5+ -4+	-7+ -7+ -7+ -6+ -6+	-9+ -9+ -8+ -8+ -7+	-11+ -11+ -10+ -9+	-16+ -16+ -15+ -14+ -12+	180 <sup>6</sup> 170 160 150 140	180 <sup>0</sup> 190 200 210 220
50 60 70 80 90	310 300 290 280 270	-3+ -3+ -2+ -1+ 0	-5+ -4+ -3+ -1+ 0	-6+ -4+ -3+ -2+ 0	- 8+ - 6+ - 4+ - 2+ 0	-10+ - 8+ - 6+ - 3+ o	130 120 110 100 90	230. 240 250 260 270

01			TITAN	-1-1-	Н	YPERIO	ON	JAPETUS			
Weltz	eit	U	В	P	U	В	P	U	В	P	
1947		o	0	0		О	0	0	0	0	
Jan.	-3	8.336	-18.032	the same of the sa	4.424	-18.486	-	80.271	-4.625	-2.558	
	+5	7.817	18.249		3.907	18.705	7.240	79.761	4.803	2.693	
	13	7.236	18.486		3.329	18.943		79.192	4.999	2.844	
	21	6.614	18.735		2.709	19.193		78.584	5.204	3:005	
701 1	29	5.974	18.986		2.071	19.446		77.960	5.412	3.171	
Febr.	6	5.340	-19.231	-7.100	1.439	-19.693	THE RESERVE OF	77.344	-5.616	-3.334	
	14	4.736	19.461		0.837	19.924		76.758	5.808	3.490	
März	22	4.183	19.668		0.286	20.132		76.222	5.982	3.632	
Marz	2	3.701	19.846		359.806	20.312		75.757	6.133	3.755	
	10	3.307	19.991	7.144	359.415	20.457 -20.565		75.377		3.855	
	26	3.014 2.831	-20.099 20.167	Contract Con	359.125 358.944	20.634		75.095	-6.347 6.407	-3.930	
April	3	2.763	20.10/		358.879	20.661		74.918	6.429	3.977 3.994	
whin	11	2.703	20.194	7.153	358.932	20.647		74.901	6.418	3.982	
	19	2.976	20.101	7.151	359.100	20.592		75.059	6.373	3.940	
	27	3.253	-20.034		359.380	-20.498		75.326	-6.295	-3.870	
Mai	5.	3.637	19.903		359.767	20.366		75.696	6.185	3.772	
17101	13.	4.120	19.736		0.254	20.198		76.163	6.045	3.649	
	21	4.694	19.535		0.833	19.995	The second second	76.719	5.878	3.502	
	29	5.351	19.303		1.495	19.760		77.356	5.686	3.333	
Juni	6	6.082	-19.041		2.230	-19.495	The second second	78.067	-5.471	-3.145	
STATE	14	6.877	18.752		3.029	19.203		78.841	5.235	2.940	
	22	7.727	18.439		3.883	18.887		79.671	4.982	2.720	
2 1	30	8.622	18.104	7.019	4.783	18.549		80.548	4.715	2.488	
Juli	8	9.554	17.751	ACCUPATION OF THE PARTY OF THE	5.718	18.192		81.463	4.434	2.245	
5	16	10.513	-17.383	-6.960	6.681	-17.820	-7.188	82.409	-4.144	-1.995	
	24	11.491	17.002	6.926	7.663	17.435	7.161	83.376	3.847	1.739	
Aug.	1	12.479	16.612	6.890	8.654	17.040	7.133	84.356	3.546	1.481	
	9	13.468	16,217		9.647	16.640	7.102	85.341	3.244	1,221	
	17	14.450	15.820		10.633	16.239		86.322	2.943	0.963	
	25	15.417	-15.424		11.603	-15.839		87.291	-2.646	-0.708	
Sept.	2	16.360	15.035		12.549	15.445		88.238	2.357	0.460	
	10	17.271	14.657		13.463	15.062		89.157	2.078	-0.220	
	18	18,142	14.293		14.337	14.693		90,037	1.812	+0.010	
01	26	18.963	13.948		15.161	14.344	CONTRACTOR OF THE	90.869	1.563	0.226	
Okt.	4	19.727	-13.627		15.927	-14.019		91.645	-1.334	+0.427	
	12	20.425	13.334		16,628	13.722		92.355	1.127	0.611	
	20	21.048	13.07.4		1 - 12/12/19/19	13.459		92,990	0.945	0.775	
NT	28	21.589	12.852		17.797	13.233	The second second	93.541	0.791	0.917	
Nov.	5	22.039	12.671		18.250	13.050		94.000	0.669	1.035	
	13	22.392	-12.535		18.606			94.360	-0.579	+1,128	
	21	22.641	12.448		18.858		the second second second	94.614	0.525	1.193	
Dez.	29	22.783	12.412	6.405	19.003	12.786		94.756	0.507	1,229	
Dez.	7	22.736	12.494		18.963			94.786	0.527	+1.237 1.215	
	23	22.730	12.494		18.779			94.701	0.582	1.165	
	31	22.349		-6.438	18.493		-6.748	94.303	-0.797	+1.088	
	31	22.200	1 -2.//3	0.430	1 10.493	13.140	1 0.740	1 94.204	0.797	1 1.000	

Ол	НҮРЕ	RION	Оъ	Н ҮРЕІ	RION	0 h	НҮРЕІ	RION
Weltzeit	$\alpha_{\rm tr} {\longrightarrow} \alpha_{\rm pl}$	$\delta_{tr} - \delta_{pl}$	Weltzeit	$\alpha_{\rm tr}$ — $\alpha_{\rm pl}$	$\delta_{tr} - \delta_{pl}$	Weltzeit	α <sub>tr</sub> α <sub>pl</sub>	$\delta_{\rm tr} - \delta_{\rm pl}$
1947 Jan -1 +1	s s -13.1 + 7.8 - 5.3 + 2.2	- 86 - 94	1947 <b>März</b> 18 20	- 9.3 - 6.8 -16.1	+50 + 1	1947 Okt. 12	$ \begin{array}{c} s \\ +13.1 \\ +9.6 \end{array} $	+20 +45 +25
3 5 7	$ \begin{array}{c} 3.5 + 9.2 \\ + 3.9 + 8.1 \\ + 12.0 \\ + 16.2 \\ - 2.2 \end{array} $	- 78 +37 - 41 +50	22 24	$ \begin{array}{r} -17.5 \\ -17.5 \\ -14.0 \\ -7.0 \\ +8.7 \end{array} $	$ \begin{array}{rrrr}  & -49 \\  & -48 \\  & -36 \\  & -84 \\  & -14 \\  & -98 \\  & + 9 \end{array} $	16 18 20	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	+48 + 3 +30 -30 0 -29
9 11 13	+14.0 - 8.8 + 5.2 - 11.4 - 6.2 - 8.8 - 15.0	+ 56 + 76 + 20 + 76 -17 + 59 -43 + 16 -50	28 30 April 1	+ 1.7 + 9.9 + 5.0 + 14.9 - 0.5 + 14.4 - 6.8	-89 -56 +33 - 7 +49 - 7 +50 +43 +31	22 24 26 28	$ \begin{array}{r} -16.3 \\ -14.6 \\ + 5.3 \\ - 9.3 \\ + 7.5 \\ - 1.8 \\ + 8.0 \end{array} $	$ \begin{array}{rrrr} -29 \\ -51 \\ -61 \\ -56 \\ +5 \end{array} $
17 19 21 23 25	$ \begin{array}{c} -16.5 + 2.1 \\ -16.4 + 6.5 \\ -9.9 + 8.9 \\ -1.0 + 9.1 \\ +8.1 + 6.7 \end{array} $	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	11	+7.6 $-10.5$ $-2.9$ $-12.1$ $-4.6$ $-16.7$ $-16.1$	+74 - 6 $+68 - 37$ $+31 - 49$ $-18 - 44$	Nov. 1 3 5 7	+ 6.2 + 6.0 $+ 12.2 + 0.9$ $+ 13.1 + 5.2$ $+ 7.9 - 9.1$ $- 1.2 - 8.7$	$ \begin{array}{r} -36 + 20 \\ +32 \\ -4 + 33 \\ +29 + 20 \\ +49 - 4 \\ +45 - 23 \end{array} $
27 29 31 Febr. 2 4	+14.8 + 1.5 +16.3 - 5.6 +10.7 - 10.7 -10.9 - 6.5 -17.4 - 0.7	- 21 +54 + 33 +38 + 71 + 5 + 76 -33 + 43 -50 - 7	Endowed I St	$ \begin{array}{r} -11.3 \\ -3.7 \\ +4.7 \\ +11.7 \\ +3.2 \\ +14.9 \\ -2.8 \end{array} $	-89 -94 -76 +38 -38 +50 +12 +56	9 11 13 15 17	$\begin{array}{c} -9.9 \\ -15.5 \\ -16.9 \\ -14.0 \\ +6.2 \\ -7.8 \\ \end{array}$	+22 $-30$ $-8$ $-37$ $-19$ $-56$ $-62$ $-62$ $+9$
8 10 12 14 16	$ \begin{array}{r} -0.7 \\ -18.1 \\ -13.8 + 4.3 \\ -6.0 + 7.8 \\ -3.3 + 8.3 \\ +11.6 + 4.6 \end{array} $	- 56 - 89 -33 - 100 +13 - 87 +38 - 49 +52	27 29 Mai 1 3	+12.1 $-8.4$ $+3.7$ $-10.1$ $-6.4$ $-7.4$ $-13.8$ $-2.7$ $-16.5$ $+2.1$ $-14.4$ $+5.7$	+73 -18 +55 -42 +13 -46 -33 -37 -70 -19	21 23 25 27 29	$ \begin{array}{c} + 0.4 + 8.1 \\ + 8.5 + 5.0 \\ + 13.5 - 0.8 \\ + 12.7 - 7.0 \\ + 5.7 - 9.8 \\ - 4.1 - 8.4 \end{array} $	-28 + 7 +35 + 38 +13 + 51 -10 + 41 -27
18 20 22 24 26	$\begin{array}{c} +16.2 \\ +14.5 \\ -8.3 \\ +6.2 \\ -11.3 \\ -5.1 \\ -14.2 \\ -3.9 \end{array}$	+ 3 +50 + 53 +26 + 79 -13 + 66 -13 + 23 -52	7 9 11 13	$\begin{array}{c} -8.7 \\ -0.9 \\ +7.0 \\ +7.0 \\ +12.8 \\ +14.0 \\ -4.6 \end{array}$	$ \begin{array}{r} -89 \\ -86 + 3 \\ -62 + 24 \\ -20 + 47 \\ +27 + 35 \end{array} $	Dez. 1 3 5 7 9	$ \begin{array}{r} -12.5 \\ -17.0 \\ -0.1 \\ -17.1 \\ -12.9 \\ + 7.2 \\ - 5.7 \\ + 8.9 \end{array} $	$ \begin{array}{rrrr} +14 & -32 \\ -18 & -27 \\ -45 & -16 \\ -61 & -2 \\ -63 & +15 \end{array} $
28 März 2 4 6 8	$\begin{array}{l} -18.1 \\ -16.5 + 6.0 \\ -10.5 + 8.6 \\ -1.9 + 9.0 \\ +7.1 + 6.8 \end{array}$	— 29 — 73 –44 — 97 – 1 — 98 +25 — 73 +45	19	$\begin{array}{c} +\ 9.4 \\ +\ 0.3 \\ -\ 9.0 \\ -\ 5.7 \\ -\ 14.7 \\ -\ 15.8 \\ +\ 3.2 \end{array}$	+62 + 5 + 67 -27 + 40 -42 -2 -44 -30	11 13 15 17	+ 3.2 +11.0 + 3.5 +14.5 - 3.1 +11.4 - 8.6 + 2.8	$ \begin{array}{rrrr} -48 \\ -18 \\ +37 \\ +19 \\ +28 \\ +47 \\ +6 \\ +53 \\ -x8 \end{array} $
10 12 14 16 18	1.200	- 28 + 25 +53 + 68 +43 + 77 +9 + 50 -27	27 29 31 Juni 2 4	$ \begin{array}{r} -12.6 \\ -6.4 + 7.7 \\ +1.3 + 7.3 \\ +8.6 + 4.6 \end{array} $	-74 -11 -85 + 9 -76 +29 -47 +42 - 5	21 23 25 27 29 31	$\begin{array}{c} -7.3 \\ -14.9 \\ -18.2 \\ -18.2 \\ +1.5 \\ -16.7 \\ +5.5 \\ -11.2 \\ +8.3 \end{array}$	+35 $+4$ $-31$ $-28$ $-26$ $-54$ $-67$ $-63$

0 <sup>h</sup>	JAPE'	TUS	0ъ	JAPE'	rus	0ъ	JAPE'	JAPETUS	
Weltzeit	$\alpha_{\rm tr}$ — $\alpha_{\rm pl}$	$\delta_{tr} {-} \delta_{pl}$	Weltzeit	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$	Weltzeit	$\alpha_{tr}$ — $\alpha_{pi}$	$\delta_{tr} - \delta_{pl}$	
1947 Jan1	s s	+10	1947 <b>März</b> 18	s +39.6 s	+16	1947 Okt. 12	S S		
+1	+40.7 +1.7 +42.4	+18 + 8	20	+41.1 +1.5	+27 +11	A STATE OF CHILD	-34.2 + 1.2	+ 4 -2	
	+43.1	+27 + 9	22	+41.7 +0.6	+10	14	$-33.0^{+1.2}_{+2.0}_{-31.0}$	+ 2 + 1	
3	+42.8 -0.3	+ 8	24	+41.3	+37 + 9	18	-28.2 + 2.8	0 -1	
5 7	+41.4 -2.4	$\begin{vmatrix} +35 \\ +42 \\ +6 \end{vmatrix}$	26	+39.9 -z.4	+55 + 9 +55 + 7	20	-24.7 +3.5 +4.1	- 1r	
9	+39.0	+48	28	+37.5	+62	22	<b>-20.6</b>	<b>— 2</b>	
II	$+35.6^{-3.4}$	+54 +0	30	+34.3	+68 + 6	24	-16.0 +4.6	- 4 -2	
13	+31.3	+58 + 4	April 1	+20 2 -4.0	+72 + 4	.26	-II.0 +5.0	- 5 -I	
15	+26.2	+61 + 3	3	+25.5	+74 + 2	28	$-5.7^{+5.3}$	- 6 <sup>-1</sup>	
17	+20 4 -5.8	+62 + 1	5	$+20.2^{-5.3}$	+71	30	$-0.2^{+5.5}$	- 7 <sup>-1</sup>	
	-6.4	- 1		-5.8	- 2	A STATE OF THE STATE OF	+5.5		
19	+14.0 -6.8	+61 -2	7	+14.4 -6.2	+72 -4	Nov. 1	+ 5.3 +5.4	— 8 <sub>—1</sub>	
21	+ 7.2 _6.9	+59 -4	9	+ 8.2 -6.3	+68 -5	3	+10.7 +5.3	- 9 _1	
23	+ 0.3	+5.5 - 6	II	+ 1.9 -6.3	+63 -7	5	+16.0	—10 —1	
25	$-6.7^{-7.0}_{-6.8}$	+49 -7	13	- 4.4 <sub>-6.1</sub>	+56 -8	7	+20.9 +4.5	—II	
27	$-13.5_{-6.4}$	+42 -8	15	-10.5 -5.8	+48	9	$+25.4^{+4.5}_{+3.9}$	—i i —i	
29	-100	+34	17	<b>—</b> 16.3	+38	11	+29.3	-12	
31	-25.7 -5.°	+24	19	$-21.6^{-5.3}$	+28 -10	13	$+32.6^{+3.3}$	—I2	
Febr. 2	30.9	+13 -11	21	-26.2	+17	15	+35.2	—I2	
.4	$-35.2^{-4.3}$	+ 2	23	-30.2 -4.0	+ 6 -11	17	+37.0 +1.8	—I2 °	
6	$-38.4 \begin{array}{r} -3.2 \\ -2.1 \end{array}$	- 9 -11	25	-33.3 -3.1 -2.2	5 -II	19	+38.0 +1.0	-12 o +1	
8	-40.5 <sub>-1.0</sub>	-20 <sub>-12</sub>	27	-35.5 <sub>-1.2</sub>	-16 -10	21	+38.1 -0.8	-11 +1	
10	-41.5 +o.2	-32 <sub>-10</sub>	M-: 29	-36.7 <sub>-0.2</sub>	<del>-26</del> -10	23	+37.3	-10	
12	-41.3 +1.3	<del>-42</del> -9	Mai 1	$-36.9_{+0.8}$	$-36_{-8}$	25	+35.6	- 9 +1	
14	-40.0 +2.2	-51 -8	3	-36.1 +1.6	<del>-44</del> - 7	27	+33.0	- 8 <sub>+2</sub>	
16	-37.8 + 3.7	—59 <sub>– 6</sub>	5	-34.5 <sub>+2.5</sub>	51 6	29	+29.5	- 6 +2	
18	-34.I +4.3	<del>-65</del> - 4	7	-32.0 +3.4	<del>-57</del> -4	Dez. i	+25.3 -4.9	- 4 <sub>+2</sub>	
20	-29.8 +5.1	-69 <sub>-3</sub>	9	-28.0	-61	3	+20.4	- 2 +2	
22	-24.7	-72 - I	II	-24.0 +4.6	$-63^{-2}$	5	+15.0	+2	
24	-18.9 <sub>+6.7</sub>	-73 <sub>+ 1</sub>	13	-20.0	-64 + 1	7	+ 9.1 -6.2	+ 2 +2	
26	-12.8 +6.4	-72 + 3	15	-15.0 +5.4	-63 + 2	9	+ 2.9 -6.3	+ 4 +2	
28	$-6.4_{\pm 0.3}$	<del>-69</del> + 5	17	- 9.6 +5.5	-61 + 4	II	- 3.4 -6.2	+ 6 +2	
März 2	+6.5	-04 <sub>+ 7</sub>	19	- 4.I	-57 + 5	13	- 9.6 -6.T	+ 8 +2	
4	+6.1	+ 8	21	Tee	-52 + 6	15	-15.7 <sub>-5.7</sub>	+10+1	
6	+13.2	-49 + <b>9</b>	23	1 /.0	-52 + 6 $-46 + 6$	17	-21.4	+11	
8	+19.2	-40 +10	25	+12.3 +5.0	-40 + 8	19	-26.5 -5.1 -4.4	+12 +1	
10	+24.7	-30	27	+17.3 +4.6	$\frac{-32}{-24} + 8$	21	-30.9 <sub>-3.6</sub>	+13 0	
12	+29.0	-19	29	+21.9	1 1 8	23	-34.5 <sub>-2.7</sub>	+13	
14	+33.0	- 8	31	+20.0	-16 + 9	25	-37.2	+13 _r	
16	+37.1	+ 4	Juni 2	+29.5	-16 + 9 - 7 + 8	27	$-38.8_{-0.6}$	+12	
18	+39.6 +2.5	+16 +12	4	+32.3	+ 1	29	-39.4	+ 1 12	
						31	$-38.9^{+0.5}$	+ 9	

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300		Saturnstrabanten 1947												
1	1925		Östliche Elongationen (in Weltzeit)											
			MIMAS											
A Fre		h		h		h			h	2"				
Jan.	0	5.6	Febr. 16	8.3	April 4	11.2	Mai :	21	14.3	7				
	I	.4.2	17	6.9	5	9.8	1- 152	22	12.9	3				
	2	2.9	18	5.5	6	8.4	St. Late	23	11.6					
	3	1.5	19	4.2	7	7.0	6- 30	24	10.2	2				
	4	0.1	20	2.8	8	5-7	- 10	25	8,8					
1000	4	22.7	21	1.4	9	4.3	75 2	26	7.4	100				
	5	21.3	22	0.0	10	2.9		27	6.1	-				
	6	19.9	22	22.6	11	1.5	EL WELL	28	4.7	18				
13 5 -	7	18.5	23	21.2	12	0.2	The same	29	3.3	3				
	- 8	17.1	24	19.8	12	22.8	- 57 725	30	2.0	10				
	9	15.8	25	18.4	13	21.4	- 4/	31	0.6					
1	10	14.4	26	17.1	14	20.0		31	23.2	8				
	II	13.0	27	15.7	15	18.6	Juni	I	21.9					
	12	11.6	28	14.3	16	17.3	100	2	20.5	13				
	13	10.2	März 1	12.9	17	15.9		1-2						
	14	8.8	2	11.5	18	14.5	13 35-		13/1/19/	1				
	15	7.4	3	10.1	19	13.1	2 5-12	N 3.	6	9				
	16	6.0	4	8.7	20	11.7	1000	134	þ	13				
	17	4.6	5	7.3	21	10.3	Okt.	19	10.3	18				
	18	3.3	6	5.9	22	9.0	372	20	8.9	3				

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April

Östliche Elongationen (in Weltzeit).

ENC	ELA	DUS	ENCELA	DUS	ENCEL	ADUS	ENCEL	ADUS	TETH	YS
VI F	100	h	Carrier 1	h	THE PARTY OF	h	STURE SAN	h	13111111	h
Jan.	0	18.4	März 4	18.7	Mai 6	19.5	Nov. 17	11.0	Jan. 12	19.9
	2	3.2	6	3.5	8	4.4	18	19.8	14	17.2
	3	12.1	7	12.4	9	13.3	20	4.7	16	14.5
	4	21.0	8	21.3	10	22.2	21	13.6	18	11.8
3-1-	6	5.8	10	6.2	12	7.1	22	22.5	20	9.1
	7	14.7	II	15.0	13	16.0	24	7.4	22	6.4
	8	23.6	12	23.9	15	0.9	25	16.3	24	3.6
1000	10	8.5	14	8.8	16	9.8	27	I.I	26	0.9
	II .	1.7.3	15	17.7	17	18.7	28	10.0	27	22.2
	13	2.2	17	2.5	19	3.6	29	18.9	29	19.5
	14	II.I	18	11.4	20	12.5	Dez. 1	3.8	31	16.8
	15	19.9	19	20.3	21	21.4	2	12.7	Febr. 2	14.1
	17	4.8	21	5.2	23	6.3	3	21.6	4	11.4
	1.8	13.7	22	14.1	24	15.2	5	6.4	6	8.7
	19	22.6	23	23.0	26	0.1 ,	6	15.3	8	5.9
	21	7.4	25	7.9	27	9.0	8	0.2	10	3.2
	22	16.3	26	16.8	28	17.9	9	9.1	12	0.5
	24	1.2	28	1.6	30	2.8	10	18.0	13	21.8
	25	10.1	29	10.5	т . 31	11.6	12	2.9	15	19.1
	26	18.9	30	19.4	Juni 1	20.5	13	11.7	17	16.4
	28	3.8	April 1	4.3	3	5.4	14	20.6	19	13.7
	29	12.7	2	13.2	5000000000		16	5.5	21	11.0
T. L.	30	21.6	3	22.I			17	14.4	23	8.3
Febr.	I	6.4	5	7.0	Here's Viet		18	23.2	25	5.6
	2	15.3	6	15.9	01-4	h	20	8.1	M: 27	2.9
	4	0.2	8	0.8	Okt. 19	16.3	21	17.0	März 1	0.2
	5	9.1	9	9.7	21	1.2	23	1.9	2	21.5
100	8	17.9	10	18,6	22	10.0	24	10.7	4	16.1
	20 Mil	2.8	12	.3.5	23	18.9	25	19.6	8	A 10 TO 10 T
	9	20.6	13	12.3	25 26	3.8	27	4.5		13.4
	12	5.4	14 16	6.1	READING DI	12.7	The Species	13.4	10 12	10.7 8.0
4 45 3	1.3	14.3		15.0	27	6.5	29 31	7.I	14	
17.1-19	14	23.2	17 18	23.9	29 30	15.4	3.1	7.1	16	5.3 2.6
6 173	16	8.1	20	8.8	Nov. 1	0.3			17	23.9
	17	17.0	21	17.7	2	9.2			19	21.2
	19	1.9	23	2,6	3	18.1	1.7		21	18.5
	20	10.7	24	11.5	5	3.0	TETH	VS.	23	15.8
	21	19.6	25	20.4	6	11.8	35 33-18		25	13.1
	23	4.5	27	5.3	7	20.7		h '	27	10.4
	24	13.4	28	14.1	9	5.6	Jan. 1	12.2	29	7.7
	25	22.3	29	23.0	10	14.5	3	9.5	31	5.0
	27	7.2	Mai 1.	7.9	11	23.4	5	6.8	April 2	2.3
	28	16.0	2	16.8	13	8.3	7	4.0	3	23.6
März	2	0.9	4	1.7	14	17.2	9	1.3	. 5	20.9
	3	9.8	5	10.6	16	2.1	10	22.6	7	18.3
	1935			1 50		35.75.7	1			No.

Östliche Elongationen (in Weltzeit)

T	ETH	YS	TETH	YS	DIO	1E	DIOI	ve VE	RHE	A
o Delse				3		and the last	15 8 C 18 C	3040.00	406 055	
April	9	h 15.6	Nov. 10	h 23.1	Febr. 5	h 6.2	Okt. 17	h 22.0	Febr. 12	h
April	11	12.9	12	20.4	7	23.8	20	15.7	16	4.1
	13	10.2	14	17.7	10	17.5	23	9.5	21	4.7
	15	7.5	16	15.0	13	11.1	26	3.2	25	17.1
	17	4.9	18	12.3	16	4.8	28	20.9	März 2	5.4
Mr. Allenda	19	2,2	20	9.6	18	22.5	31	14.6	6	17.8
	20	23.5	22	6.9	21	16.2	Nov. 3	8.3	11	6.2
	22	20.8	24	4.3	24	9.8	6	2.0	15	18.5
	24	18.1	26	1.6	27	3.5	8	19.7	20	6.9
	26	15.4	27	22.9	März 1	21.1	II	13.4	24	19.3
	28	12.8	29	20.2	4	14.8	14	7.1	29	7.7
	30	10.1	Dez. I	17.5	7	8.5	17	0.8	April 2	20.1
Mai	2	7.4	3	14.8	10	2.1	19	18.5	7	8.5
	4	4.7	5	12.1	12	19.8	22	12.2	11	21,0
	6	2.0	7	9.4	15	·13.4	25	5.9	16	9.4
	7	23.3	9	6.7	18	7.1	27	23.6	20	21.9
	9	20.7	11	4.0	21	0.8	30	17.3	25	10.4
	II	18.0	13	1.3	23	18.5	Dez. 3	11.0	29	22.9
	13	15.3	14	22.6	26	12.2	6	4.7	Mai 4	11.3
	15	12.7	16	19.9	29	5.8	8	22.3	8	23.8
	17	10.0	18	17.2	31	23.5	II	16.0	13	12.3
	19	7.4	20	14.5	April 3	17.2	14	9.6	18	0.9
	21	4.7	22	11.8	6	10.9	17	3.3	22	13.4
	23	2,0	24	9.1	9	4.6	19	21.0	27	1.9
	24	23.3	26	6.4	II	22.3	22	14.7	31	14.4
	26 28	20.7	28	3.7	14	16.0	25	8.3	Juni 5	3.0
		18.0	30	F.O	17	9.7	28	2.0		
Juni	30	15.3	31	22.3	20 22	3.4	30	19.6		h
Juni	No.	10,0			25	14.8	33	13.3	Okt. 18	20. I
	, 3	10.0			28	8.5		5 19 15	23	8.6
	1		DION	1E	Mai 1	2.3			27	21.1
				h	3	20.0			Nov. 1	9.6
	Sec.	h	Jan. o	16.8	6	13.7			5	22.1
Okt.	19	7.3	3	10.5	9	7.4			10	10,6
	21	4.6	6	4.1	12	1.1	RHE	lA	14	23.1
	23	1.9	8	21.8	14	18.8		h	19	11.5
	24	23.2	11	15.4	17	12.6	Jan. 2	13.2	24	0.0
	26	20.6	14	9.1	. 20	6.3	7	1.6	28	12.4
	28	17.9	17	2.7	, 23	0,0	II	13.9	Dez. 3	0.8
	30	15.2	19	20.3	25	17.7	16	2.2	7	13.2
Nov.	I	12.5	22	14.0	28	11.4	20	14.5	12	1.6
	3	9.8	25	7.6	31	5.2	2.5	2.8	16	14.0
	5	7.1	28	1.3	Juni 2	22.9	29	15.1	21	2.4
	7	4.5	30	18.9		13000	Febr. 3	3.4	25	14.8
	9	1.8	Febr. 2	12.5	STATE OF		7	15.8	30	3.1
		A CHE			FREE PARTY				34	15.5

## Elongationen und Konjunktionen (in Weltzeit)

	TITAN			TITAN	HYPERION				
		h		h			h		
Jan.	I	13.1 Ob. Konj.	Nov. I	3.9 Ob. Konj.	Mai	2	21.7 Westl. El.		
F 17 - 1	5	15.7 Östl. El.	5	5.9 Östl. El.		9	11.2 Ob. Konj.		
	9	11.3 Unt. Konj.	9	1.3 Unt. Konj.	100	14	23.5 Östl. El.		
	13	7.4 Westl. El.	12	22.9 Westl. El.		19	5.5 Unt. Konj.		
	17	10.5 Ob. Konj.	17	3.3 Ob. Konj.	100	24	6.9 Westl. El.		
	21	13.1 Östl. El.	21	5.2 Östl. El.	7	30	21.4 Ob. Konj.		
	25	8.7 Unt. Konj.	25	o.5 Unt. Konj.	Juni	5	8.7 Östl. El.		
Febr.	29	4.7 Westl. El. 7.8 Ob. Konj.	28	22.0 Westl. El.	77 12	9	14.7 Unt. Konj.		
rebr.	2	10.4 Östl. El.	Dez. 3	2.2 Ob. Konj.					
	6		7	4.0 Östl. El.	014	-6	h		
	10	6.1 Unt. Konj.	10	23.2 Unt. Konj.	Okt.	16	10.6 Unt. Konj.		
	14	2.1 Westl. El.	14	20.6 Westl. El.		21	23.4 Westl. El.		
	18	5.1 Ob. Konj.	19	o.7 Ob. Konj.	Non	28	14.4 Ob. Konj.		
	22	7.9 Östl. El.	23	2.4 Östl. El.	Nov.	2	15.2 Östl. El.		
26.	26	3.8 Unt. Konj.	26	21.5 Unt. Konj.	MATERIAL STATES	6	21.4 Unt. Konj.		
März	I	23.7 Westl. El.	30	18.8 Westl. El.		12			
	6	2.7 Ob. Konj.	34 .	22.7 Ob. Konj.		19	1.2 Ob. Konj. 1.0 Östl. El.		
	10	5.7 Östl. El.	6,000,000	- 1: a		24	THE RESERVE OF THE PARTY OF THE		
151313	14	1.7 Unt. Konj.			D	28	7.2 Unt. Konj.		
	17	21.7 Westl. El.			Dez.	3	21.0 Westl. El.		
	22	o.8 Ob. Konj.			0.000	10	10.6 Ob. Konj. 0.6 Östl. El.		
	26	3.9 Östl. El.	H	YPERION		15	STATE OF THE RESIDENCE		
To be	30	o.o Unt. Konj.				19	15.9 Unt. Konj. 5.7 Westl. El.		
April	2	20.2 Westl. El.		h o- Ob K:		25.	CONTRACTOR OF THE PROPERTY OF		
	6	23.4 Ob. Konj.	Jan. 2	8.7 Ob. Konj.	100	31	18.4 Ob. Konj.		
	II	2.6 Östl. El.	7	20.1 Östl. El.	30.5333	36	17.1 Östl. El.		
	14	22.8 Unt. Konj.	12	1.6 Unt. Konj.	A 0.00				
	18	19.1 Westl. El.	17	o.o Westl. El.	-	J	APETUS		
	22	22.5 Ob. Konj.	23	10.6 Ob. Konj.					
	27	′ 1.8 Östl, El.	28	22.2 Östl. El.			h 12.0 Östl. El.		
	30	22.1 Unt. Konj.	Febr. 2	3.7 Unt. Konj.	Jan.	3			
Mai	4	18.5 Westl. El.	7	1.9 Westl. El.	Trib	23	4.2 Unt. Konj.		
	8	22.1 Ob. Konj.	13	12.6 Ob. Konj.	Febr. März	10	17.7 Westl. El.		
	13	1.5 Östl. El.	19	0.7 Östl. El.	Marz	2	1.3 Ob. Konj.		
	16	21.8 Unt. Konj.	23	6.4 Unt. Konj.	A 31	22	16.7 Östl. El.		
	20	18.4 Westl. El.	28	4.5 Westl. El.	April	II	18.3 Unt. Konj. 18.1 Westl. El.		
	24	22.1 Ob. Konj.	März 6	15.6 Ob. Konj.	Mai	30	ALCOHOL STATE OF THE STATE OF T		
	29	1.5 Östl. El.	12	4.3 Östl. El.	Mai	20	14.5 Ob. Konj		
Juni	I	21.9 Unt. Konj.	16	10.1 Unt. Konj.	Juni	10	20.6 Östl. El.		
	5	18.6 Westl. El.	21	8.5 Westl. El.					
	9	22.4 Ob. Konj.	27	20.3 Ob. Konj.		100			
Siras A	283		April 2	9.1 Östl. El.	014	333	as 4 West El		
01:	1000	h OL Z	6	15.1 Unt. Konj.	Okt.	9	22.4 Westl El.		
Okt.	16	4.0 Ob. Konj.	II	14.2 Westl. El.	NICT	30	3.2 Ob. Konj		
	20	6.2 Östl. El.	18.	2.8 Ob. Konj.	Nov.	20	4.7 Östl. El.		
	24	1.8 Unt. Konj.	23	15.6 Östl. El.	Dez.	9	23.1 Unt. Konj.		
	27	23.4 Westl. El.	27	21.6 Unt. Konj.	100	28	16.8 Westl. El.		

Wel	tzeit		Wel	tzeit	
1947	h m		1947	h m	
Jan. 3	16	Q im Perihel	April 3	18	ħ stationär in AR.
4	3	Ö i. kleinst. Abst. v. ⊙	5	3 10	₩ <b>♂ (</b>
5	9 46	\$ <b>♂ (</b> <b>♂ ♂ (</b>	5	12	<ul> <li></li></ul>
	17	Ŭ im Aphel	5 8	12 21 47	4 gr. westi. El. 27 48
7 8	12 18	t o €	18	5 37	\$ Q (
. 13	1 18	Ψσ¢	19	5 54	φ σ (
13	6	Ψ stationär in AR.	19	6 55	0 d (
16	13 25	24 0 (	19	23	Ф б б; Ф 1°49's.
18	3 4	♀♂ (	24	14 33	8 0 €
18	12	Ф o o; Ф o° 57's.	26	0	Q im Aphel
21	23 4	0 0 C	27	13 23	ħ d (
22	.6 2	\$ Q (		100	
22	16	♥ obere ♂ ⊙			
26	9	h of O	26	h m	ttt ~ 4
28	2	Q gr. westl. El. 46° 56′	Mai 2	8 51	Ψ σ <b>(</b> 4 σ <b>(</b>
	A CONTRACTOR		14	0 9	24.00
	h m		14	23	♥ obere ♂ ⊙
Febr. 1	18 2	3 ♂ 《	17	12	♀♂♂; ♀ 1° 1′s.
4	20 7	ħ o (	18	8 46	000
9	10 21	Ψσ (	18	9 30	₽ ♂ 《
13	3 44	4 d (	19	II	Ş im Perihel
16	22 58	₽ ४ (	20	1000	O totale Finsternis
20	1 31	♂ ♂ 《	21	0 17	\$ Q (
20	12	Ş im Perihel	22	I 26	\$ 0 €
21	4	♀ gr. östl. El. 18° 7′	24	22 38	h o C
22	8 58	♥ ♂ 《 ð stationär in AR.	28	16	♀♂∂; ♀ 1°51′n. Ψ♂ (
25 27	0	♥ stationär in AR.	29	13 33	* 0 4
2/.	4	* stational in Aic.			
				h m	
	h m		Juni 2	0 5	4 ℃ €
März 1	0 23	\$ 0 €	3		( partielle Finsternis
4	2 15	h o C	13	19	8 4 0
8	4	♥ untere ♂ ⊙	16	8 26	0 0 C
8	19 30	Ψ σ (	17	9 40	900
12	14 56	24 of (	17	II	♀ gr. östl. El. 24° 41′ ♂ ♂ 《
14	15	각 stationär in AR. 보 of of; 보 3°40'n.	18	14 19	Ψ stationär in AR.
16	17 1 38	Q d (	20	13 37	φ stationar in AR.  φ σ (
20	19 41	\$ 0 <b>(</b>	21	11 28	h o C
21	4 13	000	22	6 19	Sommersanfang
21	8	♥ stationär in AR.	25	19 11	Ψσ (
. 21	11 13	Frühlingsanfang	29	III	400.
27	15	O' im Perihel	30	17	♥ stationär in AR.
28	6 29	800			
31	7 16	h o (			
31	16	Ψ&⊙		13000	

E.							
15 July 25 1	Welt	tzeit		10760	Welt	zeit	
1947	, 1	h m		194	7	h m	<b>经济发生的</b>
Juli	2	11	♥ im Aphel	Okt.	2	16	👌 stationär in AR.
, , , , ,	2	20	♀ ♂ ♂; ♀ o° 34′ s.	O.K.	5	7	Ψ σ Θ
	5	10	† i. größt: Abst. v. ⊙		6	5 20	\$ ♂ €
	14	7	♥ untere ♂ ⊙	3820	8	20 36.	000
	15	4 56	7 d (		9	21 48	ħ o C
	16	3 26	\$ 0° (C		13	12 39	Ψσ¢
	16	9	4 stationär in AR.	10/2/2	13	23	♥ gr. östl. El. 25° 2′
	17	5 40	Q ♂ <b>(</b>		15	2 19	₽ d (
	17	18 18	φ σ «		16	3 53	¥ 0 (
	19	2 50	h o C		17	4 4I	400
	22	9	♀ o ♀; ♀ 4° 55′ s.	11340	25	22	Stationär in AR.
	23	3 10	Ψσ (		29	10	Ф б Q; Ф 2° 42′ s.
	25	9	Ş stationär in AR.	00000	29		+ 0 +, + + 4- 5.
1	26	6 41	4 d (				
	20	0 41	+ 0		30.7	h m	
	1	1000		Nov.	2	10 33	\$ ♂ €
1772	1139	h m		1101.	5	22	♥ untere ♂ ⊙
Aug.	3	20	Ø gr. westl. El. 19° 21'		6	2 37	o d €
11ug.	6	0	t of ⊙		6	6 40	ħ o C
	6	2	σσδ; σο° i'n.		9	14	우 선 각; 우 0° 56′ s.
	12	14 52	8 d €	-11/25	9	21 58	Ψσ (
	12	19 19	♀ ♂ ħ; ♀ o° 20′ n.	0.80	.IÌ	10	♀ im Perihel
	12	21 46	o d ( €	100	II	18	σσh; σο° 55′n.
	15	10 10	\$ 0 <b>(</b>		II	19 46	\$ d (
	15	11	♀ im Perihel		12	-2 -	⊙ ringf. Finsternis
	15	18 56	h o C		14	0 39	24.00
	16	0 31	\$ d (		14	10 25	900
	16	8	Q im Perihel	No. 18 3	14	18	Ş stationär in AR.
) Select	18	13	Ф б ћ; Ф 0° 35′ п.		22	10	Ø gr. westl. El. 19° 44'
	19	13 38	Ψ σ (	Description of the last	29	17 16	300
	22	17 47	2 0 (				
	26	20	φσφ; φο° 28′ п.	25-11		1000	
	28	10	♥ obere ♂ ⊙			h m	
		90000		Dez.	I	13	400
	84-			100	3	13 36	h o C
	3	h m		800	4	4 9	0 d (
Sept.	1	13	♀ obere ♂ ⊙		5	3	ħ stationär in AR.
	8	23 25	30€	2000	6	17	Q im Aphel
	10	10 58	00 C	SE POO	7	5 8	Ψ <b>d</b> ( •
	12	9 46	h o C		11	10 48	Ÿ of €
	14	22 33	900	-	11	20 2	40 (
	15	18 31	¥ 0 (	130 60	14	19 34	900
1	16	1 23	Ψσ (	Charles and the	15	2	및 성 각; 및 0° 34's.
7	18	9	Ф σ Ψ; Ф 1° 38′ s.	5004	16	22	880
	19	9 44	21.00		22	16 43	Wintersanfang
	23	21 29	Herbstanfang		25	9	♥ im Aphel
	27	21	Q σ Ψ; Q 0° 18′ s.		27	2 .7	3 ℃ €
	28	.10	♥ im Aphel		30	20 38	h o C
	10/2				83.6		

Mittlere Ortszeit

Пож			G	deogr	aphis	che B	reite			
Tag	-10°	o°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°
1947 Jan. 0	h m	h m	h m 6 16	h m 6 35	h m 6 55	h m	h m	h m	h m 8 25	h m
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2	5 43	6 0	617	6 35	6 56	7 22	7 38	7.59	8 25	9 3
3	5 44	6 т	6 18	6 36	6 56	7 22	7 38	7 59	8 25	9 2
4	5 44	6 I	6 18	6 36	6 56	7 22	7 38	7 59	8 25	9 1
5	5 45	6 I	6 18	6 36	6 56	7 22	7 38	7 58	8 24	9 1
6	5 45	6 2	6 19	6 37	6 56	7 22	7 38	7 58	8 24	9 0
7	5 46	6 2	6 19	6 37	6 57	7 22	7 38	7 58	8 23	8 59
8	5 46	6 2	6 19	6 37	6 57	7 22	7 38	7 58	8 23	8 58
9	. 5 47	6 3	6 20	6 37	6 57	7 22	7 37	7 57	8 22	8 57
10	5 48	6 4	6 20	6 37	6 57	7 22	7 37	7 57	8 21	8 56
II	5 48	6, 4	6 20	6 37	6 57	7. 22	7 37	7 56	8 21	8 55
/12	5 49	6 5	6 21	6 38	6 57	7 22	7 37	7 56	8 20	8 53
13	5 49	6 5	6 21	6 38	6 57	7 21	7 36	7 55	8 19	8 52
14	5 50	6 5	6 21	6 38	6 57	7 21	7 36	7 54	8 18	8 51
15	5 50	6 5	6 21	6 38	6 57	7 21	7 36	7 54 .	8 17	8 49
16	5 51	6 6	6 22	6 39	6 57	7 20	- 7 35	7 53	8 16	8 48
17	5 51	6 6	6 22	6 39	6 57	7 20	7 34	7 52	8 15	8 46
18	5 52	6 7	6 22	6 38	6 56	7 19	7 33	7 51	8 14	8 45
19	5 52	6 7	6 22	6 38	6 56	7 19	7 32	7 50	8 12	8 43
20	5 53	6 7	6 22	6 38	6 56	7 18	7 31	7 49	8 11	8 41
21	5 53	.6 7	6 22	6 38	6 56	7 18	7 31	7 48	8 10	8 39
22	5 53	6 8	6 23	6 38	6 55	7 17	7 30	7 47	8 8	8 37
23	5 54	6 8	6 23	6 38	6 55	7 17	7 29	7 46	8 7	8 35
24	5 54	6 8	6 23	6 38	6 5 5	7 16	7 28	7 45	8 6	8 33
25	5 5 5	6 9	6 23	6 38	6 55	7 15	7 28	7 44	8 4	8 31
26	5 5 5	6 9	6 23	6 38	6 54	7 15	7 27	7 43	8 3	8 29
27.	5 56	6 9	6 23	6,38	6 54	7 14	7 26	7 42	8 1	8 27
28	5 56 5 56	6 9	6 23	6 37	6 53	7 13	7 25	7 40	7 59	8 25
29	100	75050	6 23	6 37	6 53	7 12	7 24	7 39	7 58	8,23
30	5 57	6 10	6 23	6 37	6 52	7 11	7 23	7.38	7 56	8 21
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9	6 0	611	6 22	6 33	6 46	7 2	7 11		7 37	7 57
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m		Geographische Breite											
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1947 Jan. o	h m 18 24	h m 18 7	h .m	h m	h m	h m 1644	h m	h m	h m	h m			
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2	18 25	18 8	17 51	17 33	17 12	16 46	16 29	16 9	15 43	15 6			
3	18 25	18 8	17 51	17 34	17 13	16 46	16 30	16 10	15 44	15 7			
4	18 25	18 9	17 52	17 35	17 13	16 47	16 31	16 11	15 45	15 9			
5	18 26	18 9	17 52	17 35	17 14	16 48	16 32	16 12	15.47	15 10			
6	18 26	18 10	17 53	17 36	17 15	16 49	16 33	16 14	15 48	15 12			
7	18 26	18 10	17 53	17 36	17 16	16 50	16 35	16 15	15 49	15 14			
8	18 27	18 11	17. 54	17 37	17 16	16 51	16 36	16 16	15 51	15 15			
9	18 27	18 11	17 54	17 38	17 17	16'52	16 37	16 17	15 52	15 17			
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15	18.29	18 13	17 57	17 42	17 22	16 58	16 44	16 26	16 2	15 30			
16	18 29	18 14	17 58	17 43	17 23	16 59	16 45	16 27	16 4	15 32			
17	18 29	18 14	17 58	17 43	17 24	17 1	16 47	16 28	16 6	15 34			
18	18 29	18 14	17 59	17 44	17 25	17 2	16 48	16 30	16 8	15 37			
19	18 29	18 14	17.59	17 44	17 25	17 3	16 49	16 31	16 9	15 39			
20	18 29	18 15	18 0	17 45	17 26	17 4	16 50	16 33	16 11	15 42			
21	18 29	18 15	18 0	17 45	17 27	17 5	16 52	16 35	16 13	15 44			
22	18 30	18 16	18 1	17 46	17 28	17 6	16 53	16 36	16 15	15 46			
23	18 30	18 16	18 1	17 46	17 29	17 7	16 54	16 38	16 17	15 49			
24	18 30	18 16	18 2	17 47	17 30	17 8	16 55	16 39	16 19	15 51			
25	18 30	18 16	18 2	17 47	17 30	17 10	16 57	16 41	16 21	15 54			
26	18 30	18 16	18 2	17 48	17 31	17 11	16 59	16 43	16 23	15 57			
27	18 30	18 17	18 3	17 49	17 32	17 12	17 0	16 44	16 25	15 59			
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3	18 29	18 17	18 5	17 53	17 38	17 21	17 9.	16 56	16 40	16 17			
4	18 29	18 17	18 6	17 54	17 39	17 22	17 11	16 58	16 42	16 20			
5	18 29	18 17	18 6	17 54	17.40	17 23	17 12	·17 O	16 44	16 23			
6	18 29	18 17	18 6	17 55	17 41	17 24	17 14	17 1	16 46	16 25			
7	18 29	18 18	18' 7	17 56	17 42	17 25	17 15	17 3	16 48	16 28			
8.	18 29	18 18	18 7	17 56	17 43	17 27	17 17	17 5	16 50	16 30			
9	18 28	18 18	18 7	17 57	17.44	17 28	17 19	17 7	16 52	16 33			
10	18 28	18 18	<b>1</b> 8 8	17 57	17 44	17 29	17 20	17 8	16 54	16 36			

Mittlere Ortszeit

	Geographische Breite												
Tag	-10°	o°	+100	+20°	+30°	+40°	+45°	+50°	+55°	·+60°			
1947 Febr. 10	h m 6 I	h m 6 11	h m 6 21	h m 6 32	h m 6 45	h m	h m	h m 7 2 I	h m 7 35	h m 7 54			
11 12 13	6 I 6 I	6 11	6 2 I 6 2 I 6 2 I	6 32 6 31 6 31	6 44 6 43 6 43	6 59 6 58 6 57	7 8 7 7 7 6	7 19 7 18 7 16	7 33 7 31 7 29	7 51 7 49 7 46			
14	6 I 6 2	6 11	6 20 6 20	6 30	6 42 6 41	6 56 6 54	7 4 7 2	7 14 7 12	7 27 7 25	7 43 7 41			
16 17 18	6 2 6 2 6 2	6 10 6 10	6 20 6 20 6 19	6 29 6 29 6 28	6 40 6 39 6 38 6 37	6 53 6 52 6 50	7 I 7 O 6 58	7 II 7 9 7 7	7 22 7 20 7 18	7 38 7 35 7 32			
19 20 21	6 2 6 2 6 2	9 10 9 10	6 19 6 18	6 27 6 27 6 26	6 37 6 36 6 35	6 49 6 48 6 46	6 56 6 55 6 53	7 5 7 3 7 I	7 16 7 14 7 11	7 30 7 27 7 24			
22 23 24 25 26 27	6 3 6 3 6 3 6 3 6 3	6 10 6 10 6 10 6 9 6 9	6 18 6 17 6 17 6 17 6 16 6 16	6 25 6 24 6 24 6 23 6 22 6 22	6 34 6 33 6 32 6 31 6 30 6 29	6 45 6 44 6 42 6 41 6 39 6 38	6 51 6 49 6 47 6 46 6 45 6 44	6 59 6 57 6 55 6 53 6 52 6 50	7 9 7 7 7 4 7 2 7 0 6 57	7 21 7 19 7 16 7 13 7 10			
28 März 1 2 3 4	6 3 6 3 6 4 6 4 6 4	6 9 9 6 9 6 8 6 8	6 15 6 15 6 14 6 14 6 13 6 13	6 21 6 20 6 19 6 19 6 18 6 17	6 28 6 27 6 26 6 25 6 24 6 23	6 36 6 35 6 34 6 32 6 30 6 29	6 42 6 40 6 38 6 36 6 34 6 33	6 48 6 45 6 43 6 41 6 39 6 37	6 55 6 52 6 50 6 47 6 45 6 43	7 4 7 1 6 58 6 55 6 53 6 50			
6 7 8 9 10	6 4 6 4 6 4 6 4	6 8 6 8 6 7 6 7 6 7	6 12 6 12 6 11 6 11 6 10 6 10	6 16 6 16 6 15 6 14 6 13 6 12	6 22 6 21 6 19 6 18 6 17 6 16	6 27 6 26 6 24 6 23 6 21 6 20	6 31 6 29 6 27 6 26 6 24 6 22	6 35 6 33 6 31 6 29 6 27 6 24	6 40 6 38 6 35 6 33 6 30 6 28	6 47 6 44 6 41 6 38 6 35 6 32			
12 13 14 15	6 4 6 4 6 4 6 4 6 4	6 6 6 6 6 6 6 5	6 9 6 9 6 8 6 8 6 7	6 11 6 11 6 10 6 9	6 15 6 14 6 12 6 11 6 10	6 18 6 16 6 15 6 13 6 12	6 20 6 18 6 16 6 14 6 13	6 22 6 20 6 18 6 16 6 14	6 25 6 23 6 20 6 18 6 15	6 29 6 26 6 23 6 20 6 17			
17 18 19 20	6 4 6 4 6 4	6 5 6 5 6 4 6 4	6 6 6 6 6 5 6 5	6 7 6 5	6 9 6 8 6 6 6 5	6 10 6 8 6 7-	6 11 -6 8 6 '7	6 12 6 9 6 7 6 5	6 13 6 10 6 7 6 5	6 14 6 11 6 8 6 5.			
21 22 23	6 4 6 4 6 4	6 4 6 4 6 4	6 4 6 3	6 5 6 4 6 3	6 4 6 3 6 2	6 5 6 4 6 2 6 0	6 5 6 3 6 2 6 0	6 3 6 1 5 59	6 2 6 0 5 57	6 2 5 59 5 56			

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1947 Febr. 10	h m- 18,28	h m 1818	h m	h m	h m	h m	h m	h m	h m 16 54	h m 16 36		
11 12	18 28 18 28	18 18	18 8	17 57	17 45 17 46	17 30 17 31	17 21	17 10 17 12	16 56 16 58	16 38 16 41		
13 14	18 27 18 27	18 18	18 8 18 8	17 58 17 59	17 47 17 48	17 32 17 34	17 24 17 25	17 14	17 I 17 3	16 44 16 46		
15 16	18 27	18 18	18 9	17 59	17 48	17 35	17 27	17 17	17 5	16 49		
17	18 27 18 26 18 26	18 17	18 9 18 9	18 0 18 0	17 49 17 50 17 51	17 36 17 37 17 38	17 28 17 29 17 31	17 19 17 20 17 22	17 7 17 9 17 11	16 54		
19	18 26 18 25	18 17	18 9	18 1	17 51	17 40	17 33 17 34	17 24	17 13	16 59		
21.	18 25	18 17	18 10	18 2	17 53	17 42	17 35	17 27	17 17	17 5		
22	18 25	18 17	18 10	18 2	17 53	17 43	17 37	17 29	17 19	17 7		
24 25 26	18 24 18 23 18 23	18 17 18 17 18 17	18 10	18 3 18 3 18 4	17 55 17 55 17 56	17 45 17 46 17 48	17 39	17 32	17 24 17 26 17 28	17 12		
. 27	18 23	18 17	18 10	18 4	17 57.	17 49	17 42	17 36	17 30	17 17		
März 1	18 22	18 16	18 10	18 4	17 58	17 50	17 45	17 39	17 32	17 23		
3	18 21	18 16	18 11	18 5	17 59	17 52	17 47	17 42	17 36	17 28		
.5	18 20	18 16	18 11	18 • 6	18 1	17 54	17 50	17 46	17 40	17 33		
6 7	18 19	18 15	18 11	18 7	18 2 18 2	17 56	17 53	17 49	17 44	17 38		
9	18 18	18 15	18 11	18 7	18 3	17 59	17 56	17 52	17 48	17 43		
11,	18 17	18 14	18 11	18 8	18 4	18 1	17 59	17 56	17 52	17 48		
12	18 16	18 14	18 11 18 11	18 9 18 9	18 6 18 6	18 3 18 4	18 1 18 2	17 59 18 0	17 56 17 58	17 53 17 55		
14	18 15	18 13	18 11	18 10	18 7 18 8	18 5 18 6	18 4 18 5	18 2 18 4	18 0 18 2	17 58 18 O		
16 17	18 14	18 13 . 18 12	18 11	18 10	18 8	18 <i>7</i> 18 8	18 6 18 8	18 5	18 4 18 6	18 3		
18	18 13	18 12	18 11	18 11	18 10	18 9	18 9	18 8	18 8	18 7 18 10		
20 21	18 12	18 12	18 11	18 11	18 11	18 II 18 I2	18 11	18 12 18 13	18 12 18 14	18 12 18 15		
22 23	18 10	18 10	18 11	18 11. 18 12	18 12 18 13	18 13	18 14 18 15	18 15 18 16	18 16	18 17 18 20		

Mittlere Ortszeit Meridian von Greenwich

По с	Geographische Breite									
Tag	-10°	o°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°
1947 <b>M</b> ärz 23 24	h m 6 4 6 4	h m 6 4 6 3	h m 6 3 6 2	h m 6 3 6 1	h m 6 2 6 0	h m 6 o 5 59	h m 6 o 5 58	h m 5 59 5 56	h m 5 57 5 55	h m 5 56 5 53
25 26	6 4	6 3	6 2 6 i	6 I	5 59 5 58	5 57 5 55	5 56 5 54	5 54 5 52	5 52 5 50	5 49 5 46
27 28	6 4	6 3	6 I	5 59 5 58	5 57 5 56	5 54 5 52	5 53 5 51	5 50 5 48	5 47 5 44	5 43 5 40
29 , 30 31 April 1 2	6 4 6 4 6 4 6 4	6 2 6 2 6 1 6 1	5 59 5 59 5 58 5 58 5 57	5 57 5 56 5 55 5 55 5 54	5 54 5 53 5 52 5 51 5 50	5 51 5 49 5 47 5 46 5 44	5 49 5 47 5 45 5 43 5 41	5.46 5.43 5.41 5.39 5.37	5 42 5 39 5 37 5 34 5 32	5 37 5 34 5 31 5 28 5 25
3 4 5	6 4 6 4 6 4	6 I 6 O 6 O	5 57 5 56 5 56	5 53 5 52 5 52	5 48 5 47 5 46	5 42 5 41 5 39	5 39 5 37 5 35	5 35 <sub>.</sub> 5 32 5 30	5 29 5 27 5 24	5 22 5 19 5 16
6 7 8 9	6 4 6 4 6 4	6 o 5 59 5 59 5 59	5 55 5 54 5 54 5 53	5 51 5 50 5 49 5 48	5 45 5 44 5 42 5 41	5 38 5 36 5 35 5 33	5 33 5 32 5 30 5 28	5 28 5 26 5 24 5 22	5 22 5 19 5 17 5 14	5 13 5 10 5 7 5 4
10 11 12 13 14	6 4 6 4 6 4 6 4	5 59 5 58 5 58 5 58 5 58	5 53 5 52 5 52 5 51 5 51	5 47 5 46 5 46 5 45 5 44	5 40 5 39 5 38 5 37 5 36	5 31 5 30 5 28 5 27 • 5 25	5 26 5 25 5 23 5 21 5 19	5 20 5 18 5 15 5 13 5 11	5 12 5 9 5 7 5 4 5 2	5 I 4 58 4 55 4 52 4 49
16 16 17 18 19 20	6 4 6 4 6 4 6 4 6 4	5 57 5 57 5 57 5 57 5 56 5 56	5 50 5 50 5 49 5 49 5 48 5 48	5 43 5 42 5 41 5 41 5 40 5 39	5 34 5 33 5 32 5 31 5 30 5 29	5 24 5 22 5 21 5 19 5 18 5 16	5 18 5 16 5 14 5 12 5 10 5 9	5 9 5 7 5 5 5 3 5 1 4 59	4 59 4 57 4 54 4 52 4 50 4 47	4 46 4 43 4 40 4 37 4 35 4 32
21 22 23 24	6 4 6 4 6 4	5 56 5 56 5 55 5 55	5 47 5 47 5 46 5 46	5 38 5 38 5 37 5 36	5 28 5 27 5 26 5 25	5 15 5 13 5 12 5 11	5 7 5 5 5 4 5 2	4 57 4 55 4 53 4 51	4 45 4 42 4 40 4 38	4 29 4 26 4 23 4 20
25 26 27 28	6 4 6 4 6 4	5 55 5 55 5 55 5 54	5 45 5 45 5 45 5 44	5 .35 5 34 5 34 5 33	5 24 5 23 5 22 5 21	5 9 5 8 5 7 5 5	5 0 4 59 4 57 4 56	4 49 4 47 4 45 4 44	4 35 4 33 4 31 4 29	4 17 4 14 4 12 4 9
29 30 Mai 1 2	6 4 6 4 6 4 6 5	5 54 5 54 5 54 5 54 5 54	5 44 5 43 5 43 5 43 5 42	5 33 5 32 5 31 5 31 5 30	5 20 5 19 5 18 5 17 5 17	5 4- 5 3 5 1 5 0 4 59	4 54 4 53 4 51 4 49 4 48	4 42 4 40 4 38 4 36 4 35	4 26 4 24 4 22 4 20 4 18	4 6 4 3 4 1 3 58 3 55

		Geographische Breite									
Tag	-10°	o <sup>c</sup>	,+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	
1947 März 23	h m	h m 1810	h m	h m	h m	h m 18 14	h m 1815	h m 1816	h m 18 18	h m 18 20	
24	18 9	18 10	1811	18 12	18 13	18 15	18 16	18 18	18 20	18 22	
25	18 9	18 10	18 11	18 12	18 14	18 16	18 17	18 19	18 22	18 24	
26	18 8	18 9	18 11	18 13	18 15	18 17	18 19	18 21	18 24	18 27	
27 28	18 7	18 9	18 11	18 13	18 15 18 16	18 18	18 20	18 23	18 26	18 29	
		18 9	12.537	STATE OF THE		18 19	18 21		18 27	18 32	
29	18 6	18 8	18 11	18 13	18 16	18 20	18 23	18 26	18 29	18 34	
30	18 6	18 8	18 11	18 13	18 17	18 21	18 24	18 27	18 31	18 37	
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15	17 57	18 3	18 10	18 18	18 26	18 37	18 44	18 52	19 1	19 16	
16	STATE OF THE PARTY OF		C. Borras S.	45.5	100000000000000000000000000000000000000		Strate Contract	1000	SUPPLE SE	The same	
17	17 56	18 3	18 10	18 18	18 27	18 38	18 45	18 54	19 4	19 18	
18		18 3	18 11	18 19	18 28	18 39	18 46	18 57	19 6	19 21	
19	-1 33	18 3	18 11	18 19	18 29	18 42	18 50	18 59	19 10	19 26	
20	THE RESERVE TO STATE OF THE PERSON NAMED IN COLUMN TWO IN	18 2	18 11	18 20	18 30	18 43	18 51	19 0	19 12	19 28	
21	17 54	18 2	18 11	18 20	18 30	18 44	18 52	19 2	19 14	19 31	
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23	The second second second	18 2	18 11	18 20	18 31	18 46	18 54	19 5	19 18	19 36	
24	CONTRACTOR OF THE PARTY OF THE	18 2	18 11	18 21	18 32	18 47	18 55	19 6	19 20	19 38	
25		18 1	18 11	18 21	18 33	18 48	18 57	19 8	19 22	19 41	
26	OF THE PARTY OF THE	18 1	18 11	18 21	18 33	.18 49	18 59	19 10	19 24	19 43	
27	A STATE OF THE PARTY OF	18 1	18 11	18 22	18 34	18 50	19 0	19 11	19 26	19 46	
28	CHURCHIE	18 1	18 11	18 22	18 35	18 51	19 1	19 13	19 28	19 48	
29	A R. Commercial and	18 1	18 11	18 22	18 35	18 52	19 2	19 14	19 30	19 51	
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11	613	5 56	5 39	5 20	4 58	4 31	4 13	3 51	3 22	2 39
12	613	5 56	5 39	5 20	4 58	4 31	4 13	3 51	3 21	2 38
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Juni 1	17 45	18 1	18 17 18 18	18 34	18 55	19 21	19 38	19 58	20 25	21 4
	17 45	18 1	1000	18 35	18 56	19 22	19 38	19 59	20 27	AVAILABLE TO
3	17 45	18 1	18 18	18 35	18 57	19 23	19 39	20 O 20 I	20 28	21 8
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7	17 45	STATE OF STATE	18 19	TO SERVICE	18 59	NEW YORK	19 43	20 6	20 34	21 15
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12	17 46	18 3 18 3	18 21 18 21	18 39 18 39	19 I 19 2	19 29	19 47	20 9	, 20 38 20 39	2I 22 2I 23
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22 23	17 55 17 55	18 10	18 25	18 41	19 0	19 24	19 37	19 57	20 22	20 55
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27 28	6 6 6	5 59 5 58	5 51	5 43	5 34	5 22 5 23	5 15	5 6	4 55 4 57	4 41 4 43
29 30	6 4 6 4	5 58 5.58	5 5 F 5 5 I	5 44 5 44	5 35 5 35	5 24 5 25	5 17 5 18	5 9 5 10	4 59 5 I	4 45
Sept. 1	6 3 6 3	5 57 5 57	5 5 I 5 5 I	5 44 5 44	5 36 5 36	5 26 5 27	5 20 5 21	5 12	5 2 5 4	4 50
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20	17 56	18 10	18 24	18 39	18 56	19 19	19 33	19 50	20 12	20 42
Street Sale	The state of			10000	376 P. W.	STATES !	Contract to	99,250		2014
30	17 56	18 10	18 23	18 38	18 55	19 17	19 30	19 47	20 8	20 37
Aug. 1	17 57	18 10	18 23	18 37	18 54	19 16	19 29	19.45	20 6	20 35
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29	17 56	17 54	17 52	17 51	17 49	17 47	17 46	17 45	17 43	17 42
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3 4	17 55	17 53	17 50	17 47	17 44	17 41	17 38	17 36	17 33	17 29
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6 7	17 55	17 52	17 48	17 44	17 40	17 36	17 33	17 30	17 26	17 20
8	17 55	17.51	17 47	17 43	17 38	17 33	17 30	17 26	17 21	17 14
9	17 55	17 51	17 47	17 42	17 37	17 31	17 28 17 26	17 23	17 18	17 12
II	17 55	17 50	17 45	17 40	17 35	17 28	17 24	17 19	17 13	17 6
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19	5 35	5 42	5 49 5 49	5 56	6 3	614	6 19	6 27	6 36	6 47
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22	5 34 5 33	5 4 I 5 4 I	5 49 5 49	5 57 5 57	6 6	6 17_	6 23	6 32	6 42	6 54
24	5 33	5 41	5 49	5 57	6 7	6 19	6 2 5	6 35	6 46	7 0
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26	5 32	5 41	5 49	5 58	6 9	6 21	6 28	6 38	6 50	7 5
27.	5 32	5 41	5 50 .	5 59	6 10	6 23	6 30	6 40	6 52	7 7
28 29	5 3 I 5 3 I	5 40 5 40	5 50 5 50	5 59 5 59	610	6 24	6 31	6 42	6 54	7 10
30	5 31	5 40	5 50	6 0	6 12	6 26	6 34	6 45	6 58	7 15
31	5 30	5 40	5 50	6 0	6 13	6 27	6 36	6 47	7 0	7 17
Nov. 1	5 30	5 40	5 51	6 I	6 14	6 28	6 37	6 48	7 2	7 20
2	5 30	5 40	5 51	6 I 6 2	6,14	6 29	6 38	6 50	7 4	7 23
3 4	5 29	5 40	5 5 I 5 5 I	6 2	6 15	6 30	6 40	6 52	7 6	7 25
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31	17 57	17 47	17 37	17 27	17 15	17 0	16 51	16 40	16 27	16 9
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21	5 37	5 54	6 12	6 30	6 51	7 18	7 35	7 56	8 23	9 2
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29	5 41	3 30	015	6 33	0 55	/121	/ 3/	7 59	0 25	9 4
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27 28	18 7	17 52 17 52	17 36 17 36	17 20 17 20	17 O	16 37 16 37	16 23 16 23	16 5 16 4	15 42 15 40	15 10
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4 5	18 11	17 54	17 37	17 21	17 0	16 35	16 20 16 20	16 0 16 0	15 35	15 0
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1 19	16 24	16 4	15 45 16 34	15 24	15 0	14 29	14 9	13 44	13 11	12 22
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2	£4 29 15 30	14 8	13 48	13 26	13 0	12 29	12 9	11 42	11 6	10 13
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26	22 32	22 44	22 56	23 9	23 24	23 42	23 54	0 8		
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2	16 3	15 52	15 41	15 30	15 16	14 59	14 48	14 36	14 20	13 57
3	16 49	16 42	16 35	16 28	16 20	16 10	16 4	15 56	15 46	15 34
4	17 31	17 29	17 27	17 25	17.22	17 18	17 16	17 14	17 11	17 7
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7	19 34	19 45	19 55	20 7	20 20	20 36	20 46	20 58	21 14	21 35
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29	14 1	13 49	13 37	13 24	13 -8	12 49	12 37	12 23	12 4	11 38
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19	16 54	16 54	16 54	15 59	16 54	15 47	16 54	16 54	16 54	16 54
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10	11 19	11 29	11 39	11 50	12 3	12 19	12 29	12 40 14 0	12 56	13 16
11	12 58	13 15	13 33	13 52 14 58 16 3	14 14 15 23 16 29	14 42	15 0	15 22	15 52 17 17 18 27	16 35
13 14 15	14 59 16 5 17 11	15 20 16 25 17 28	15 41 16 45 17 45	16 3 17 6 18 3	17 30 18 23	17 2 18 1 18 49	17 23 18 20 19 5	17 50 18 45 19 25	19 17	19 24 20 5 20 26
16	18 14	18 28	18 40	18 54	19 9	19 28 20 1	19 40	19 55	20 12	20 36
18	20 9 .21 I	20 I 3 2I 0	20 16 20 59	20 20 20 58	20 24 20 57	20 29 20 55	20 32 20 54	20 36 20 53	20 40 20 51	20 46 20 50
20 21 22	21 53	21 47	21 41 22 23 23 6	21 35 22 13 22 51	21 29 22 1 22 35	21 20 21 47 22 15	21 15 21 38 22 2	21 9	21 2 21 13 21 28	20 53 20 56 21 I
23	23133	23 19	23 6 23 50	23 33	23 12 23 53	22 47 23 23	22 31	21 47 22 11 22 40	2I 45 22 9	21 9
24 25 26	0 24 I 15 2 7	0 7 0 56 1 46	0 37	0 16 1 4	0 38	 0 6	23 4 23 45 ———	23 18	22 43 23 29	2I 47 22 30
27 28	2 5/8 3 47	2 37 3 27	2 16 3 7	1 54 2 46	1 28 2 21	0 55 1 50	O 33	o 6 I 3	o 28	23 34 — —
29 30	4 34 5 18	4 16 5 3	3 58 4 48	3 39 4 32	3 17 4 14	2 49 3 50	2 31 3 35	2 8 3·17	1 38 2 53	0 54 2 20
Sept. 1	6 0	5 48 6 32	5 37 6 24	5 25 6 16	5 10	4 52 5 55	4 40 5 48	4 27 5 39	4 10 5 28	3 47 5 13
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7 8	23 52	23 38	23 19	23 55	22 37 23 29	22 9	21 51 22 37	21 29	21 36	20 20 20 43
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16	7 12	7 14	7 15	7 16	7 18	7 20	7 21	7 23	7 25	7 27
17	7 55 8 38	8 I 8 48	8 7 8 58	8 13	8 20	8 29	8 35	8 42	8 50	9 1
. 19	9 22	9 36	9 50	9 9	9 22	9 38	9 48	9 59	11 37	10 34
20	10 7	10 25	10 42	II O	11 21	11 49	12 6	12 28	12 57	13 39
21	10 55	11 15	11 34	11 55	12 19	12 51	13 11	13 37	14 11	15 5
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29	17 31	17 34	17 37	17 6	17 14	17 24	17 31	17 39	17 49	18 1
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8	0 55	0 34	0 14	— —	23 26	22 53	23 47	23 23	22 52	22 7
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Tar			G	leogr	aphis	che B	reite			
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11	14 53	15 12	15 30	15 50	16 12	16 41	16 59	17 21	17 50	18 31
12	15 56	16 12	16 26	16 42	17 0	17 23	17 37 18 8	17 54	18 16	18 44
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17	19 40	19 36	19 33	19 29	19 25	19 19	19 16	19 13	19 8	19 2
18	21 23	21 11	20 59	20 46	20 31	20 13	20 I	19 48	19 31	19 9
19	22 15	21 59	21 43	21 27	21 7	20 43	20 28	20 10	19 47	19 15
20	23 7	22 48	22 30	22 10	21 47	21 19	21 1	20 38	20 8	19 25
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24	1 41	1 20	I O	0 38	0 12			23 54	23 22	22 32
25	2 29	2 10	1 51	1 31	1 8	0 37	0 18			23 57
26	3 14	2 58	2 42	2 24	2 4	1 38	I 22	I 2	0 35	
27	3 57	3 44	3 31	3 17	3 I	2 41	2 28	2 12	1 52	1 25
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Okt. 1	6 35	6 38	6 42	6 45	6 50	8 2	6 58	8 19	8 30	8 45
	1000	7 24	7 32	7 40	7 50	300	100 0 150		10000	330,376
3	8 0	8 12	8 25	8 38	8 52	9 11	9 23	9 37	9 56	10 21
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8	12 43	13 3	13 22	13 43	14 7	14 38	14 57	15 21	15 52	16 39
	1000	3-700	14 18	14 36	14 56	15 21	15 37	15 56	16 21	16 55
9	13 45 14 45	14 2	15 10	15 23	15 38	15 57	16 9	16 22	16 39	17 2
11	15 41	15 49	15 57	16 6	16 15	16 27	16 35	16 43	16 53	17 7
12	16 35	16 39	16 42	16 45	16 49	16 54	16 57	17 0	17 4	17 10
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19	9 35	9 56	10 17	10 39	II 4	11 38	12 0	12 27	13 4	14 3
20	10 26	10 48	11 8	11 32	11 58	12 32	12 54	13 22	14 0	15 2
21	11 18	11 39	11 59	12 21	12 46	13 19	13 40	14 6	14 42	15 37
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23	12 59	13 15	13 31	13 48	14 8	14 33	14 49	15 7	15 31	16 4
24	13 47	14 1	14 13	14 27	14 42	15 I	15 13	15 28	15 45	16 13
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28	16 59	16 55	16 51	16 47	16 43	16 37	16 34	16 30 16 46	16 25 16 36	16 19
29 30	17 50	17 42	17 34	17 25	17 15	17 3	16.55	17 6	16 49	16 25
31	19 43	19 26	19 10	18 52	18 32	18 6	17 50	17 31	17 7	16 33
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Nov. 1	20 44	20 24	20 5	19 44	19 19	18 49	18 30	18 6	17 34	16 47
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, 4	23 48	23 29	22 7	22 50	22 25	21 55	21 36	21 11	20 38	19.48
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11	4 25	4 30	4 36	4 43	4 51	5 I	5 8	5 15	5 24	5 36
12	.5 6	5 17	5 28	5 39	5 52	6 9	6 20	6 32	6 47	7 9
13	5 50	6 5	6 19	6 35	6 53	7 16	7 31	7 48	8 11	8 43
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16	8 16	8 38	8 59	9 22	9 48	10 21	10 43	11 12	11 51	12 54
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17 18	20 56 21 49	20 38 21 29	20 21	20 2 20 48	19 41 20 23	19 14	18 57	18 36	18 8	17 30 17 44
19 20	22 42	22 21	22 0	21 37	21 11	20 38	20 16	19 48	19 11	18 11
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23 24	1 8 1 52	O 51 I 37	O 33	0 15	0 49	0 26		23 54	23 31	23 0
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30	5 55 6 43	6 5	6 16 7 12	6 27 7 28	6 40 7 46	8 9	7 6 8 24	7 18 8 41	7 34 9 4	7 55 9 37
Nov. I	7 35 8 33	7 53 8 54	8 12 9 14	8 31 9 36	8 54	9 23	9 41	10 4	10 35	11 21
· 3	9 34	9 56	10 17	10 40 11 40	11 7	11 40	12 2	12 30	13 9	14 9
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7 8	13 35 14 28	13 45 14 33	13 54 14 38	14 4 14 44	14 16	14 30	14 39 15 2	14 50	15 2 15 13	15 19 15 22
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11	17 1 17 52	16 52 17 39	16 44	16 35	16 24 16 58	16 12 16 39	16 4 16 27	15 55 16 13	15 43 15 56	15 29 15 32
13,	18 45	18 28	18 12	17 55	17 35	17 11	16 55 17 29	16 36 17 5	16 12 16 34	15 38
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20	0 28	0 15	0 2	23 49	23 34	23 14	23 2	22 47 23 57	22 28	22 2 2 27
22	I 7	0 58	0 49 1 36	0 40	0 29 I 25	0 16	0 7	1 8	1 0	0 52
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Dez. 1	21 40	21 21	2I I	20 39	20 14	19 42	19 22	18 57	18 21	17 26
2	22 38	22 21	22 4	21 46	21 24	20 58	20 41	20 20	19 51	19 10
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4		2011	<b>1</b>	23 50	23 40	23 27	23 18	23 8	22 55	22 38
5	0 17	0 9	0 0					To be		
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25	3 3	3 7	3 11	3 15	3 20	3 26	3 30	3 34	3 39	3 46
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28	, 5 22	5 39	5 56	6 14	6 35	7 I	7 18	7 38	8 6	8 46
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2.	9 31	9 50	10 9	10 29	10 52	11 21	11 39	12 1	12 30	13 13
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		1/12	10 34	10 34	10 12	13 44	15 2/	100	14 3/	13 30
12	18 23	18 3	17 43	17 21	16 56	16 24	16 4	15 38	15 4	14 12
13	19 16	1,8 55	18 34	18 11	17 45	17 11	16 49	16 21	15 43	14 42
14	20 7	19 47	19 26	19 3	18 37	18 4	17 42	17 14	16 36	15 35
15	20 56	20 37	20 17	19 56	19 32	19 I 20 I	18 41	18 16	17 42	16 50 18 14
17	21 42	21 25	21 56	20 49	21 24	21 2	20 48	20 32	20 11	19 41
	22 24	22 10	21 30	21 41	21 24	21 2	20 40	20 32	2011	19 41
18	23 3	22 53	22 43	22 32	22 19	22 3	21 53	21 41	21 26	21 6
19	23 41	23 35	23 28	23 22	23 14	23 4	22 57	22 50	22 41	22 29
20					0 8				23 57	23 52
21 22	0 18	o 16 o 58	0 14	0 II I 2	08	0 5	0 3	0 0	1 13	1 17
23	1 36	1 42	1 48	1 55	2 2	2 12	2 18	2 2 5	2 34	2 46
								Control of		
24	2 18	2 29	2 40	2 51.	3 4	3 20	3 31	3 43	3 59	4 20
25	3 6	3 21	3 36	3 52	4 10	4 33	4 48	5 6	5 29	6 2
26	4 0	4 19	4 37	4 57	5 20	5 49	6 7	6 30	7 I 8 29	7 48 9 28
27 28	5 0	5 2 I 6 2 8	5 42 6 49	6 5 7 I I	7 38	7 3 8 12	7 24 8 34	7 5 I	9 39	10 39
29	7 14	7 34	7 53	8 15	8 39	9 10	9 29	9 54	10 26	11 14
		, 34	7 33		- 39		7-9	34		
30	8 19	8 37	8 53	9 11	9 31	9 56	10 12	10 32	10 56	11 31
31	9 21	9 34	9 47	10 0	10 15	10 34	10 45	10 59	11 16	11 39

# \_ Hilfstafeln

Präzession in Länge  $p^{\lambda}$ 

Präz. in Br.  $p\beta$ 

Län-					Brei	te β					Län-	Präzession
ge λ	o°	+ r <sub>o</sub>	+ 2°	+ 3°	+4°	+5°	+6°	+7°	+8°	+9°	ge λ	$p^{eta}$
		1	- 70								a	
0	50.268	.259	.251	.243	.235	50.227	.218	.210	.202	.193	0	+0.046
10	.268	.260	.252	244	.236	.228	.220	.212	.204	.196	10	+0.127
20	.268	.260	.253	.245	.238	.230	.223	.215	.208	.200	20	+0.203 76
30	268	.261	.254	.247	.241	.234	.227	.220	.214	.207	30	+0.274 71 62
40	50.268	.262	.256	.250	.244	50.239	.233	.227	.221	.215	40	+0.336
50	.268	.263	.258	.254	.249	.244	.240	.235	.230	.225	50	+0.388
60	.268	.264	.261	.257	.254	.250	.247	.244	.240	.237	60	+0.429
70	.268	.265	.263	.261	.259	.257	.255	.253	.251	.249	70	+0.456
80	50.268	.267	.266	.266	.265	50.264	.264	.263	.262	.262	80	+0.469
90	.268	.268	.269	.270	.271	.272	.272	.273	.274	.275	90	+0.468
100	.268	.270	.272	.274	.276	.279	.281	.283	.285	.288	100	+0.453 28
110	.268	.271	.275	.278	.282	.285	.289	.292	.296	.300	110	+0.425
120	50.268	.272	.277	.282	.287	50,291	.296	.301	.306	.311	120	+0.383
130	.268	273	.279	.285	.291	.297	.303	.309	.315	.321	130	+0.329
140	.268	.274	.281	.288	.295	.301	.308	.315	.322	.329	140	+0.266
150	.268	.275	.282	.290	.297	.305	.313	.320	.328	-335	150	+0.195 78
160	50.268	.275	.283	.291	.299	50.307	.315	.323	.332	.340	160	+0.117 81
170	.268	.276	.284	.292	.300	.309	.317	.325	-333	.342	170	+0.036
180	.268	.276	.284	.292	.300	.308	.317	.325	.333	.342	180	-0.046 81
190	.268	.275	.283	.291	.299	.307	.315	.323	.331	.339	190	-0.127 76
200	50,268	.275	.282	.290	.297	50.305	.312	.320	.327	.335	200	-0.203 71
210	.268	.274	.281	.288	.294	.301	.308	.315	.321	.328	210	-0.274
220	.268	.273	.279	.285	.291	.296	.302	.308	.314	.320	220	-0.336
230	.268	.272	.277	.281	.286	.291	.295	.300	.305	.310	230	-0.388 <sup>52</sup>
240	50.268	.271	.274	.278	.281	50.285	.288	291	.295	.298	240	-0.429
250	.268	.270	.272	.274	.276	.278	.280	.282	.284	.286	250	-0.450
260	.268	.268'	.269	.269	.270	.271	.271	.272	.273	.273	260	$-0.469 \frac{13}{1}$
270	.268	.267	.266	.265	.264	.263	.263	.262	.261	.260	270	-0.468 1 15
280	50.268	.265	.263	.261	.259	50.256	.254	.252	.250	.247	280	-0.453 <sub>28</sub>
290	, .268	.264	.260	.257	.253	.250	.246	.243	.239	.235	290	-0.425
300	.268	.263	.258	.253	.248	.244	.239	.234	.229	.224	300	-0.383
310	.268	.262	.256	.250	.244	.238	.232	.226	.220	.214	310	-0.329 63
320	50.268	.261	.254	.247	.240	50.234	.227	.220	.213	.206	320	-0.266
330	.268	.260	.253	.245	.238	.230	.222	.21-5	.207	.200	330	-0.195 <sub>78</sub>
340	.268	.260	.252	.244	.236	.228	.220	.212	:203	.195	340	-0.117 <sub>8</sub>
350	.268	.259	.251	.243	.235	.226	.218	.210	.202	.193	350	-0.036 82
360	50.268	.259	.251	.243	.235	50.227	.218	.210	.202	.193	360	+0.046

Präzession in Länge  $p^{\lambda}$ 

Präz. in Br.  $p\beta$ 

1000		2 H2		70 TO	D	4- 0		35 00			21.55	
Län- ge		100			Brei						Län- ge	Präzession
λ	o°	$-1^{\circ}$	-2°	-3°	-4°	-5°	-6°	-7°	-8°	-9°	λ	$p^{eta}$
۰	1			1	100/13						0	
0	50.268	.276	.284	.292	.300	50.308	.317	.325	-333	.342	0	+0.046
10	.268	.275	.283	.291	.299	.307	.315	.323	.331	-339	10	+0.127
20	.268	.275	.282	.290	.297	.305	.312	.320	.327	-335	20	+0,203
30	.268	.274	.281	.288	.294	.301	.308	.315	.321	.328	30	+0.274 62
40	50.268	.273	.279	.285	.291	50.296	.302	.308	.314	.320	40	+0.336
50	.268	.272	.277	.281	.286	.291	.295	.300	.305	.310	50	+0.388 52
60	.268	.271	.274	.278	.281	.285	.288	.291	.295	.298	60	+0.429
70	.268	.270	.272	.274	.276	.278	.280	.282	.284	.286	70	+0.456
80	50.268	.268	.269	.269	.270	50.271	.271	.272	.273	.273	80	+0.469
90	.268	.267	.266	.265	.264	.263	.263	.262	.261	.260	90	+0.468
100	.268	.265	.263	.261	.259	.256	.254	.252	.250	.247	100	+0.453
110	.268	.264	.260	.257	.253	.250	.246	.243	.239	.235	110	+0.425
120	50.268	.263	.258	.253	.248	50.244	,239	.234	.229	.224	120	+0.383
130	.268	.262	.256	.250	.244	.238	.232	.226	.220	.214	130	+0.329 54
140	.268	.261	.254	.247	.240	.234	.227	.220	.216	.206	140	+0,266
150	.268	.260	.253	.245	.238	.230	.222	.215	.207	.200	150	+0.195 78
160	50.268	.260	.252	.244	.236	50.228	.220	.212	.203	.195	160	+0.117 81
170	.268	.259	.251	.243	1235	.226	.218	.210	.202	.193	170	+0.036
180	,268	.259	.251	.243	.285	.227	.218	.210	.202	.193	180	-0,046 8r
190	.268	.260	.252	.244	.236	.228	.220	.212	.204	.196	190	-0.127 76
200	50,268	.260	.253	.245	.238	50.230	.223	.215	.208	,200	200	-0.203
210	.268	.261	.254	.247	.241	.234	.227	.220	.214	.207	210	-0.274 62
220	.268	.262	.256	.250	.244	.239	.233	.227	.221	.215	220	-0.336
230	.268	.263	.258	.254	.249	.244	.240	.235	.230	.225	230	-0.388 52 41
240	50,268	.264	.261	.257	.254	50.250	.247	.244	.240	.237	240	-0.429
250	.268	.265	.263	.261	.259	.257	.255	.253	.251	.249	250	-0.450
260	.268	.267	.266	.266	.265	.264	.264	.263	.262	.262	260	$-0.469 \frac{13}{1}$
270	.268	.268	.269	.270	.271	.272	.272	.273	.274	.275	270	-0.468 <sub>15</sub>
280	50.268	.270	.272	.274	.276	50.279	.281	.283	.285	.288	280	-0.453 <sub>28</sub>
290	.268	.271	.275	.278	.282	.285	.289	.292	.296	.300	290	-0.425
300	.268	.272	.277	.282	.287	.291	.296	.301	.306	.311	300	-0.383
310	,268	.273	.279	.285	.291	.297	.303	.309	.315.	.321	310	-0,329 54 63
320	50.268	.274	.281	.288	.295	50.301	.308	.315	.322	.329	320	-0.266
330	.268	.275	.282	.290	.297	.305	.313	.320	.328	-335	330	-0.195
340	.268	.275	.283	.291	.299	.307	.315	.323	.332	.34,0	340	-0.117
350	.268	.276	.284	.292	.300	.309	.317	.325	-333	.342	350	-0.036 81 82
360	50,268	.276	.284	.292	.300	50.308	.317	.325	-333	.342	360	+0.046

Hilfstafeln

#### Präzession in Rektaszension $(p_{\alpha})$ und Deklination $(p_{\delta})$

$p_{lpha}$														
αδ	+60°	+50°	+40°	+30°	+20°	+10°	o°	—10°	—20°	—30°	-40°	—50°	60°	<i>p</i> δ
h	S	S	s	S	s	S	s	s	s	S	S	s	S	"
0	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	+20.0
1	3.67	3.48	3.36	3.27	3.20	3.13	3.07	3.01	2.95	2.87	2.78	2.66	2.47	+19.4
2	4.23	3.87	3.63	3.46	3.32	3.19	3.07	2.95	2.83	2.69	2.51	2.28	1.92	+17.4
3	4.71	4.20	3.87	3.62	3.42	3.24	3.07	2.91	2.73	2.53	2.28	1.95	1.44	+14.2
4	5.08	4.45	4.04	3.74	3.49	3.28	3.07	2.87	2.65	2.41	2.10	1.69	1.07	+10.0
5	5.31	4.61	4.16	3.82	3.54	3.30	3.07	2.84	2,60	2,33	1.99	1.53	0.84	+ 5.2
6	5.39	4.67	4.19	3.84	3.56	3.31	3.07	2.84	2.59	2.30	1.95	1.48	0.76	0.0
7	5.31	4,61	4.16	3.82	3.54	3.30	3.07	2.84	2.60	2.33	1.99	1.53	0.84	- 5.2
8	5.08	4.45	4.04	3.74	3.49	3.28	3.07	2.87	2.65	2.41	2.10	1.69	1.07	-10.0
9	4.71	4.20	3.87	3.62	3.42	3.24	3.07	2.91	2.73	2.53	2,28	1.95	1.44	-14.2
10	4.23	3.87	3.63	3.46	3.32	3.19	3.07	2.95	2.83	2.69	2.51	2.28	1.92	-17.4
11	3.67	3.48	3.36	3.27	3.20	3.13	3.07	3.01	2.95	2.87	2.78	2.66	2.47	-19.4
12	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	-20,0
13	2.47	2.66	2.78	2.87	2.95	3.01	3.07	3.13	3.20	3.27	3.36	3.48	3.67	-19.4
14	1.92	2.28	2.51	2.69	2.83	2.95	3.07	3.19	3.32	3.46	3.63	3.87	4.23	-17.4
15	1.44	1.95	2.28	2.53	2.73	2.91	3.07	3.24	3.42	3.62	3.87	4.20	4.71	-14.2
16	1.07	1.69	2.10	2.41	2.65	2.87	3.07	3.28	3.49	3.74	4.04	4.45	5.08	-10.0
17	0.84	1.53	1.99	2.33	2.60	2.84	3.07	3.30	3.54	3.82	4.16	4.61	5.31	- 5.2
18	0.76	1.48	1.95	2.30	2.59	2.84	3.07	3.31	3.56	3.84	4.19	4.67	5.39	0.0
19	0.84	1.53	1.99	2.33	2.60	2.84	3.07	3.30	3.54	3.82	4.16	4.61	5.31	+ 5.2
20	1.07	1.69	2,10	2.41	2.65	2.87	3.07	3.28	3.49	3.74	4.04	4.45	5.08	+10.0
21	1.44	1.95	2.28	2.53	2.73	2.91	3.07	3.24	3.42	3.62	3.87	4.20	4.71	+14.2
22	1.92	2.28	2.51	2.69	2.83	2.95	3.07	3.19	3.32	3.46	3.63	3.87	4.23	+17.4
23	2.47	2.66	2.78	2.87	2.95	3.01	3.07	3.13	3.20	3.27	3.36	3.48	3.67	+19.4
24	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	+20.0

#### Präzessionswerte und Schiefe der Ekliptik

Zeit	m	n	n	Ψ	log π	II	€
10,78 ( 17 ab-	s		S			• ,	0 / /
1900.0	3.07234	20.0468	1.33646	50.2564	9.67309	173 57.06	23 27 8.26
1905.0	3.07243	20.0464	1.33643	50.2575	9.67305	173 59.80	23 27 5.92
1910.0	3.07252	20.0460	1.33640	50.2586	9.67302	174 2.53	23 27 3.57
1915.0	3.07262	20.0456	1.33637	50.2597	9.67299	174 5.27	23 27 1.23
1920.0	3.07271	20.0451	1.33634	50,2608	9.67296	174 8.01	23 26 58.89
1925.0	3.07280	20.0447	1.33632	50.2620	9.67293	174 10.75	23 26 56.54
1930.0	3.07289	20.0443	1.33629	50,2631	9.67290	174 13.49	23 26 54.20
1935.0	3.07299	20.0439	1.33626	50.2642	9.67287	174 16.23	23 26 51.86
1940.0	3.07308	20.0434	1.33623	50.2653	9.67284	174 18.97	23 26 49.52
1945.0	3.07317	20.0430	1.33620	50,2664	9.67281	174 21.71	23 26 47.17
1950.0	3.07327	20.0426	1.33617	50.2675	9.67278	174 24.45	23 26 44.83

	ng ton han		tanaon m	DOZZIKUATOZI	o dos cirdos	dita dinge	ROALL GGG
	•		^ 0				
0 0.0	0.000	3 0.0	0.050	0.000	0.00000	1.800	0.00050
3.6	OI	3.6	51	036	01	836	51
7.2	02	7.2	52	072	02	872	52
10.8	03	10.8	53	108	03	908	53
14.4	04	14.4	54	144	04	944	54
0 18.0	0.005	3 18.0	0.055	0.180	0.00005	1.980	0.00055
21.6	06	21.6	` 56	216	06	2.016	56
25.2	07	25.2	57	252	07	052	57
28.8	08	28.8	58	288	08	088	58
32.4	09	32.4	59	324	00	124	59
0 36.0	0,010	3 36.0	0,060	0.360	0.00010	2,160	0,00060
39.6	11	39.6	61	The second secon	Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Sa	196	61
	12	A STATE OF THE PARTY OF THE PARTY	62	396	11	THE ROLL WAS A PROPERTY.	62
43.2		43.2		432	12	232 268	63
46.8	13	46.8	63	468	13		THE RESERVE OF THE PARTY OF THE
50.4	14	50.4	64	504	14	304	64
54.0	0.015	54.0	0.065	0.540	0.00015	2.340	0.00065
0 57.6	16	3 57.6	66	576	16	376	66
I 1.2	17.	4 1.2	67	612	17	412	67
4.8	18	4.8	68	648	18	448	68
8.4	19	8.4	69	684	- 19	484	69
I 12.0	0.020	4 12.0	0.070	0.720	0,00020	2.520	0,00070
15.6	21	15.6	71	756	.21	556	71
19.2	22	19.2	72	792	22	592	72
22.8	23	22.8	73	828	23	628	73
26,4	24	26.4	7.4	864	24	664	74
1 30.0	0.025	4 30.0	0.075	0.900	0.00025	2.700	0.00075
33.6	26	33.6	76	936	26	736	76
37.2	27	37.2	77	0.972	27	772	77
40.8	28`	40.8	78	1.008	28.	808	78
44.4	29	44.4	79	044	29	844	` 79
1 48.0	0.030	4 48.0	01080	1.080	0.00030	2,880	0.00080
51.6	31	51.6	81	116	31	916	81
55.2	32	55.2	82	152	32	952	82
1 58.8	33	4 58.8	83	188	33	2.988	83.
2 2.4	34	5 2.4	84	224	34	3.024	84
6.0	0.035	6.0	0.085	1.260	0.00035	060	0.00085
9.6	36	9.6	86	296	36	096	86
13.2	37	13.2	87	332	37	132	87
16.8	38	16.8	88	368	38	168	88
20.4	39	20.4	89	404	39	204	89
2 24.0	0.040	5 24.0	0,090	1.440	0,00040	3.240	0.00090
27.6	41	27.6	91	476	The second secon	276	91
31.2	42	31.2	92	512	42	. 312	92
34.8	43	34.8	93	548	43	348	93
38.4	44	38.4	94	584	44	384	94
2 42.0	0.045	5 42.0	0.095	1.620	0.00045	3.420	0.00095
45.6	46	45.6	96	656	46	456	96
49.2	47	49.2	.97	692	47	492	97
52.8	48	52.8	98	7.28	48	528	98
2 56.4	49	5 56.4	99	764	49	564	99
3 0.0	0.050	6 0.0	0!100	1.800	0.00050	3.600	0.00100
WINE CHANGE		1888 A B S S S S S S S S S S S S S S S S S S	MINEDENTER	1.000	0,00030		Service Control

X 47

Red.	om	ım	2 <sup>m</sup>	3 <sup>m</sup>	Red.		Red.	
s	h m s	h m s	h m s	h m s	s	m s	·S	m s
0	0 0 0	6 5 15	12 10 29	18 15 44	0.00	0 0	0.50	3 3
I	0 6 5	6 11. 20	12 16 34	18 21 49	0.01	0 4	0.51	3 6
3	o 12 10 o 18 16	6 17 25 6 23 30	12 22 40	18 27 54 18 33 59	0.02	0 7	0.52	3 IO 3 I4
4	0 24 21	6 29 36	12 34 50	18 40 5	0.04	0 15	0.54	3 17
5	0 30 26	6 35 41	12 40 55	18 46 10	0.05	0 18	0.55	3 21
6	0 36 31	6 41 46	12 47 I	18 52 15	0.06	0 22	0.56	3 25
7	0 42 37	6 47 51	12 53 6	18 58 20	9.07	0 26	0.57	3 28
8	0 48 42	6 53 56	12 59 11 13 5 16	19 4 26	0.08	0 29	0.58	3 32
9				19 10 31		30	0.59	3 35
IO II	I 0 52 I 6 58	7 6 7 7 12 12	13 11 21 13 17 27	19 16 36 19 22 41	0.10 0.11	0 37 0 40	0.61	3 39 3 43
12	1 13 3	7 18 17	13 23 32	19 28 47	0.12	0 44	0.62	3 46
13	I 19 8	7 24 23	13 29 37	19 34 52	0.13	0 47	0.63	3 50
14	1 25 13	. 7 30 28	13 35 42	19 40 57	0.14	0 51	0.64	3 54
15	1 31 19	7 36 33	13 41 48	19 47 2	0.15	0 55	0.65	3 57
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33 34	3 26 58	9 32 13	15 37 27	21 42 42	0.34	2 4	0.84	5 7
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11 12 13 14 15 16 17 18 19 20 21 22 22 23 24 25 26 27 28 29 30	6 57.7 13 2.9 19 8.1 25 13.4 31 18.6 37 23.9 43 29.1 49 34.4 1 55 39.6 2 1 44.8 7 50.1 13 55.3 20 0.6 26 5.8	12 12.2 18 17.4 24 22.7 30 27.9 36 33.2 42 38.4 48 43.7 7 54 48.9 8 0 54.1 6 59.4 13 4.6 19 9.9 25 15.1	17 26.7 23 32.0 29 37.2 35 42.5 41 47.7 47 52.9 13 53 58.2 14 0 3.4 6 8.7 12 13.9 18 19.2	22 41.3 28 46.5 34 51.8 40 57.0 47 2.2 53 75 19 59 12.7 20 5 18.0 11 23.2 17 28.4	11 12 13 14 15 16 17 18	11 12 13 14 0.15 16 17	40.2 43.8 47.5 51.1 54.8 0 58.4 1 2.1	61 62 63 64 0.65 66	42.8 46.5 50.1 53.8 3 57.4 4 1.1
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	13 2.9 19 8.1 25 13.4 31 18.6 37 23.9 43 29.1 49 34.4 1 55 39.6 2 1 44.8 7 50.1 13 55.3 20 0.6 26 5.8	24 22.7 30 27.9 36 33.2 42 38.4 48 43.7 7 54 48.9 8 0 54.1 6 59.4 13 4.6 19 9.9 25 15.1	23 32.0 · 29 37.2 · 35 42.5 · 41 47.7 · 47 52.9 · 13 53 58.2 · 14 0 3.4 6 8.7 · 12 13.9 · 18 19.2	28 46.5 34 51.8 40 57.0 47 2.2 53 75 19 59 12.7 20 5 18.0 11 23.2 17 28.4	13 14 15 16 17 18	13 14 0.15 16 17	47.5 51.1 54.8 0 58.4 1 2.1	63 64 0.65 66 67	46.5 50.1 53.8 3 57.4 4 1.1
14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	25 13.4 31 18.6 37 23.9 43 29.1 49 34.4 1 55 39.6 2 1 44.8 7 50.1 13 55.3 20 0.6 26 5.8	30 27.9 36 33.2 42 38.4 48 43.7 7 54 48.9 8 0 54.1 6 59.4 13 4.6 19 9.9 25 15.1	35 42.5 41 47.7 47 52.9 13 53 58.2 14 0 3.4 6 8.7 12 13.9 18 19.2	40 57.0 47 2.2 53 7.5 19 59 12.7 20 5 18.0 11 23.2 17 28.4	14 15 16 17 18	14 0.15 16 17	51.1 54.8 0 58.4 1 2.1	64 0.65 66 67	53.8 3 57.4 4 I.I
15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	31 18.6 37 23.9 43 29.1 49 34.4 1 55 39.6 2 1 44.8 7 50.1 13 55.3 20 0.6 26 5.8	36 33.2 42 38.4 48 43.7 7 54 48.9 8 0 54.1 6 59.4 13 4.6 19 9.9 25 15.1	41 47.7 47 52.9 13 53 58.2 14 0 3.4 6 8.7 12 13.9 18 19.2	47 2.2 53 7.5 19 59 12.7 20 5 18.0 11 23.2 17 28.4	15 16 17 18	0.15 16 17	54.8 0 58.4 1 2.1	0.65 66 67	3 57·4 4 I.I
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	37 23.9 43 29.1 49 34.4 1 55 39.6 2 1 44.8 7 50.1 13 55.3 20 0.6 26 5.8	42 38.4 48 43.7 7 54 48.9 8 0 54.1 6 59.4 13 4.6 19 9.9 25 15.1	47 52.9 13 53 58.2 14 0 3.4 6 8.7 12 13.9 18 19.2	53 7.5 19 59 12.7 20 5 18.0 11 23.2 17 28.4	16 17 18	16 17	0 58.4	66 67	4 I.I
17 18 19 20 21 22 23 24 25 26 27 28 29 30	43 29.1 49 34.4 1 55 39.6 2 1 44.8 7 50.1 13 55.3 20 0.6 26 5.8	48 43.7 7 54 48.9 8 0 54.1 6 59.4 13 4.6 19 9.9 25 15.1	13 53 58.2 14 0 3.4 6 8.7 12 13.9 18 19.2	19 59 12.7 20 5 18.0 11 23.2 17 28.4	17	17	1 2.1	67	STATE OF THE PARTY
18 19 20 21 22 23 24 25 26 27 28 29 30	49 34.4 1 55 39.6 2 1 44.8 7 50.1 13 55.3 20 0.6 26 5.8	7 54 48.9 8 0 54.1 6 59.4 13 4.6 19 9.9 25 15.1	14 0 3.4 6 8.7 12 13.9 18 19.2	20 5 18.0 11 23.2 17 28.4	18				4./
19 20 21 22 23 24 25 26 27 28 29 30	1 55 39.6 2 1 44.8 7 50.1 13 55.3 20 0.6 26 5.8	8 0 54.1 6 59.4 13 4.6 19 9.9 25 15.1	6 8.7 12 13.9 18 19.2	11 23.2 17 28.4	E-1000	11743C 15-C		00	8.4
20 21 22 23 24 25 26 27 28 29 30	2 I 44.8 7 50.1 13 55.3 20 0.6 26 5.8	6 59.4 13 4.6 19 9.9 25 15.1	12 13.9 18 19.2	17 28.4		19	9.4	69	12.0
22 23 24 25 26 27 28 29 30	13 55.3 20 0.6 26 5.8	19 9.9 25 15.1	18 19.2	THE RESERVE TO SERVE THE PARTY OF THE PARTY	20	0.20	13.0	0.70	15.7
23 24 25 26 27 28 29 30	20 0.6 26 5.8	25 15.1	21 21.1	23 33.7	21	21	16.7	71	19.3
24 25 26 27 28 29 30	26 5.8	STATE OF THE PARTY		29 38.9	22	22	20.4	72	23.0
25 26 27 28 29 30			30 29.6	35 44.2	23	23	24.0	73	26.6
26 27 28 29 30	32 -1.1	31 20.3	36 34.9 42 40.1	4I 49.4	24	0.25	27.7 31.3	74 0.75	30.3
27 28 29 30	38 16.3	37 25.6 43 30.8	42 40.1 48 45.4	47 54.7	25	26	35.0	76	37.6
28 29 30	44 21.5	49 36,1	14 54 50.6	21 0 5.1	27	27	38.6	77	41.2
30	50 26.8	8 55 41.3	15 0 55.9	6 10.4	28	28	42.3	78	44.9
20 Marie 100	2 56 32.0	9 1 46.6	7 1.1	12 15.6	29	29	45.9	79	48.5
31	3 2 37-3	7 51.8	13 6.3	18 20.9	30	0.30	49.6	0.80	52.2
00	8 42.5	13 57.0	19 11.6	24 26.1	31	31	53.2	81 82	55.8
32	14 47.8 20 53.0	20 2.3 26 7.5	25 16.8 31 22.1	30 31.4 36 36.6	32	32	2 0.5	8'3	4 59·5 5 3·2
33	26 58.2	32 12.8	37 27.3	42 41.8	33	34	4.2	84	6.8
35	33 3.5	38 18.0	43 32.5	48 47.1	35	0.35	7.8	0.85	10.5
36	39 8.7	44 23.3	49 37.8	21 54 52.3	36	36	11.5	86	14.1
37	45 14.0	• 50 28.5	15 55 43.0	22 0 57.6	37	37	15.1	87	17.8
38	51 19.2	9 56 33.7	16 1 48.3	7 2.8	38	38	18.8	88	21.4
39	3 57 24.4	10 2 39.0 8 44.2	7 53.5	13 8.0	39	39	22.4 26.1	0.90	25.1
40 4I	4 3 29.7 9 34.9	8 44.2 14 49.5	13 58.8	19 13.3	40 4I	0.40 4I	29.7	91	32.4
42	15 40.2	20 54.7	26 9.2	31 23.8	42	42	33.4	92	36.0
43	21 45.4	27 0.0	32 14.5	37 29.0	43	43	37.1	93	39.7
44	27 50.7	33 5.2	38 19.7	43 34-3	44	44	40.7	94	43.3
45	33 55.9	39 10.4	44 25.0	49 39.5	45	0.45	44.4	0.95	47.0
46	40 I.I	45 15.7	50 30.2	22 55 44-7	46	46	48.0	96	50.6
47 48	46 6.4 52 II.6	51 20.9 10 57 26.2	16 56 35.5	23 I 50.0 7 55.2	47 48	47 48	51.7	97 98	54·3 5 57·9
49	4 58 16.9	11 3 31.4	8 45.9	14 0.5	'49	0.49	2 59.0	0.99	6 I.6
50	5 4 22.1	9 36.6	14 51.2	20 5.7	50	Red.			100000000000000000000000000000000000000
51	10 27.4	15 41.9	20 56.4	26 11.0	51	THE REAL PROPERTY.	Red	Caller Car	Red.
52	16 32.6	21 47.1	27 1.7	32 16.2	52	S	s	CONTRACTOR OF STREET	s
53	22 37.8	27 52.4	33 6.9	38 21.4	53	0.000	s 0.00	3 s   C	0.006 s 2.4
54	28 43.1	33 57.6	39 12.1	44 26.7	-54	001	00.		007
55 56	34 48 3 40 53.6	40 2.9 46 8.1	45 17.4 51 22.6	50 31.9	55 56	2400 C200 VIII	0.5	1.6	2.7
57	46 58.8	52 13.3	17 57 27.9	24 2 42.4	57	002	00	SOLED THE EXTRE	008
58	53 4.0	11 58 18.6	18 3 33.1	8 47.7	58	TOTAL BUILDINGS	0.9	2.0	3.1
59	5 59 9.3		18 9 38.4			003	00	2000	009
Bar. E			No. of the State of the	SE NO SE		0.004	0,00	2.4	3·5 0.010

Red.	om	I m	2m	3 <sup>m</sup>	Red.	Red.	N.	Red.	
S	h m s	h m s	h m s	h m s	s	S	m s	s	m s
0	0 0 0.0	6 6 14.5	12, 12 29.1	18 18 43.6	. 0	0.00	0 0.0	0.50	3 3.1
I 2	6 6.2 12 12.5	12 20.8	18 35.3	24 49.9	I 2	0I 02	3.7	51	6.8
3	18 18.7	24 33.3	24 41.6 30 47.8	30 56.1 37 2.3	3	03	7.3	52 53	10.4
4	24 25.0	30 39.5	36 54.0	43 8.6	4	04.	14.6	54	17.8
5	30 31.2	36 45.7	43 0.3	49 14.8	5	0.05	18.3	0.55	21.4
6	36 37.5	42 52.0 48 58.2	49 6.5	18 55 21.1	6	06	22.0	56	25.1
7 8	42 43.7 48 49.9	6 55 4.5	13 1 19.0	7 33.5	7 8	07 08	25.6	57 58	32.4
9	0 54 56.2	7 1 10.7	7 25.3	13 39.8	9	09	33.0	59	36.1
10	I I 2.4	7 17.0	13 31.5	19 46.0	10	0.10	36.6	0.60	39.7
II	7 8.7	13 23.2	19 37.7	25 52.3	II	II I2	40.3	61 62	43.4
12	13 14.9	19 29.4 25 35.7	25 44.0 31 50.2	31 58.5 38 4.8	12	13	43.9	63	50.7
14	25 27.4	31 41.9	37 56.5	44 11.0	14	14	51.3	64	54.4
15	31 33.6	37 48.2	44 2.7	50 17.2	15	0.15	54.9	0.65	3 58.1
16	37 39.9	43 54.4	50 8.9	19 56 23.5	16	16	0 58.6	66	4 1.7
17	43 46.1 49 52.4	7 56 6.9	13 56 15.2 14 2 21.4	20 2 29.7 8 36.0	17	17	I 2.3 5.9	67 68	5.4 9.0
19	1 55 58.6	8 2 13.1	8 27.7	14 42.2	19	19	9.6	69	12.7
20	2 2 4.8	8 19.4	14 33.9	20 48.5	20	0.20	13.2	0.70	16.4
21	8 11.1	14 25.6	20 40.2	26 54.7.	21	21	16.9	71	20.0
22	14 17.3 20 23.6	20 3I.9 26 38.1	26 46.4 32 52.6	33 0.9	22 23	22 23	20.6	72 73	23.7
24	26 29.8	32 44.4	38 58.9	45 13.4	24	24	27.9	74	31.0
25	32 36.1	38 50.6	45 5.1	51 19.7	25	0.25	31.6	0.75	34.7
26	38 42.3	44 56.8	51 11.4	20 57 25.9	26	26	35.2	76	38.3
27 28-	44 48.5	8 57 9.3	14 57 17.6	9 38.4	27	27 28	38.9	77 78	42.0
29	50 54.8 2 57 I.0	8 57 9.3 9 3 15.6	9 30.1	9 38.4	29	29	42.5	79	45.7
30	3 3 7.3	9 21.8	15 36.3	21 50.9	30	0.30	49.9	0.80	53.0
31	9 13.5	15 28.0	21 42.6	27 57.1	31	31	53.5	81	4 56.7
32	15 19.8	21 34.3	27 48.8	34 3.4	32	32	1 57.2	82	5 10.3
33 34	21 26:0 27 32.2	27 40.5 33 46.8	33 55.I 40 I.3	40 9.6	33	33 34	2 0.9	83 84	7.6
35	33 38.5	39 53.0	46 7.6	52 22.1	35	0.35	8.2	0.85	11.3
36	39 44.7	45 59.3	52 13.8	21 58 28.3	36	36	11.8	86	15.0
37	45 51.0	52 5.5	15 58 20.0	22 4 34.6	37	37	15.5	87	18.6
38 39	51 57.2 3 58 3.4	9 58 11.7	16 4 26.3	10 40.8	38	38 39	19.2	88 89	22.3
40	4 4 9.7	10 24.2	16 38.8	22 53.3	40	0.40	26.5	0.90	29.6
41	10 15.9	16 30.5	22 45.0	28 59.5	41	41	30.2	91	33.3
42 7	16 22.2	22 36.7	28 51.2	35 5.8	142	42	33.8	92	36.9
43 44	22 28.4 28 34.7	28 43.0 34 49.2	34 57-5 41 3-7	41 12.0	43	43 44	37.5	93 94	40.6
45	34 40.9	40 55.4	47 10.0	53 24.5	45	0.45	44.8	0.95	47.9
46	40 47.1	47 1.7	53 16.2	22 59 30.8	46	46	48.5	96	51.6
47	46 53.4	53 7.9	16 59 22.5	23 5 37.0	47	47!	52.1	97	55.3
48	52 59.6	10 59 14.2	17 5 28.7	11 43.2	48	0.49	55.8	98 0.99	5 58.9 6 2.6
49 50	4 59 5.9 5 5 12.1	11 5 20.4	II 34.9 17 41.2	17 49.5 23 55.7	49 50	Annual Property lies			
51	11 18.4	17 32.9	23 47.4	30 2.0	51	Red.	Red	1000	Red.
52	17 24.6	23 39.1	29 53.7	36 8.2	52	S	S		s
53	23 30.8	29 45.4	35 59.9	42 14.5	53	0.000	s 0,00	3 S	0.006 s 2.4
54 <sup>-</sup> 55	29 37.I 35 43·3	35 51.6 41 57.9	42 6.2	48 20.7	54 55	001	00		007
56	41 49.6	48 4.1	17 54 18.6	24 0 33.2	56	THE RESERVE OF THE PARTY OF THE	0.5	1.6	2.7
57	47 55.8	11 54 10.3	18 0 24.9	6 39.4	57	002	00	and the latest and th	008
58	5 54 2.I	12 0 16.6	6 31.1	12 45.7	58	003	0.9	6	009
59	6 0 8.3	12 6 22.8	18 12 37.4	24 18 51.9	59	V 6 7 200 - 1 20	1.3	2.4	3.5
			TO THE PERSON	State Contract		0.004	0.00	7	0.010
D16 7	neduktion ist	von der Ste	rnzeit zu subt	tranieren.			1000	2000000	3.8

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	o <sup>h</sup>	Ih	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>		
m	d	d	d	d	đ	d	s ·	d
0	0.000000	0.041667	0.083333	0.125000	0.166667	0.208333	0	0.000000
I	000694	042361	084028	125694	167361	209028	I	000012
2	001389	043056	084722	126389	168056	209722	2	000023
3	002083	943750	085417	127083	168750 169444	210417	3	000035
4	0.003472	0.045139	0.086806	0.128472	0.170139	0.211806	4 5	0.000058
. 5	004167	045833	087500	129167	170833	212500	6	000069
	004861	046528	088194	129861	171528	213194	7	180000
7 8	005556	047222	088889	130556	172222	213889	8	000093
9	006250	047917	089583	131250	172917	214583	9	000104
10	0.006944	0.048611	0.090278	0.131944	0.173611	0.215278	IO	0.000116
II	007639	049306	090972	132639	174306	215972	II	000127
12	008333	050000	091667	133333	175000	216667	12	000139
13	009028	050694	092361	134028	175694	217361	13	000150
.14	009722	051389	093056	134722	176389	218056	14	000162
15 16	0.010417	0.052083	0.093750	0.135417	0.177083	0.218750	15 16	0.000174
17	011806	053472	094444 095139	136806	178472	219444	17	000197
18	012500	054167	095833	137500	179167	220833	18	000208
19	013194	054861	096528	138194	179861	221528	19	000220
20	0.013889	0.055556	0.097222	0.138889	0.180556	0.222222	20	0.000231
21	014583	056250	097917	139583	181250	222917	21	000243
22	015278	056944	098611	140278	181944	223611	22	000255
23	015972	057639	099306	140972	182639	224306	23	000266
24	016667	058333	100000	141667	183333	225000	24	000278
25	0.017361	0.059028	0.100694	0.142361	0.184028	0.225694	25	0.000289
26	018056	059722	101389	143056	184722	226389 .	26	000301
27 28	018750	060417	102083	143750	185417	227083	27	000313
29	019444	061111	102778	144444	186111	227778	28 29	000324 000336
		0.062500	103472	145139	0.187500		=	
30	0.020833	0.002500	0.104167	0.145833	188194	0.229167	30 31	0.000347
31 32	022222	063889	105556	140320	188889	230556	3.2	.000370
33	022917	064583	106250	147917	189583	231250	33	000382
34	023611	065278	106944	148611	190278	231944	34	000394
35	0.024306	0.065972	0.107639	0.149306	0.190972	0.232639	35	0.000405
36	025000	066667	108333	150000	191667	233333	36	000417
37	025694	067361	109028	150694	192361-	234028	37	000428
38	026389	068056	109722	151389	193056	234722	38	000440
39	027083	0687.50	110417	152083	193750	235417	39	000451
40	0.027778	0.069444	0.111111	0.152778	0.194444	0.236111	40	0.000463
41	028472	070139	111806	153472	195139	236806	41	000475
42 43	029167	071528	112500	154167	195833	237500 238194	42	000486 000498
44	030556	072222	113889	155556	197222	238889	43	000509
45	0.031250	0.072917	0.114583	0.156250	0.197917	0.239583	45	0.000521
46	031944	073611	115278	156944	198611	240278	46	000532
47	032639	074306	115972	157639	199306	240972	47	000544
48	033333	075000	116667	158333	200000	241667	48	000556
49	034028	075694	117361	159028	200694	242361	49	000567
50	0.034722	0.076389	0.118056	0.159722	0.201389	0.243056	50	0.000579
51	035417	077083	118750	160417	202083	243750	51	000590
52	036111	077778	119444	161111	202778	244444	52	000602
53	036806	078472	120139	161806	203472	245139	53	000613
54	0.038194	0,079167	0.121528	0.163194	0.204861	0.246528	54	0.000625
55 56	0.038194	0.079001	122222	163889	205556	247222	55 56	0.000037
57	039583	081250	122917	164583	206250	247917	57	000660
58	040278	081944	123611	165278	206944	248611	58	000671
59	0.040972	0.082639	0.124306	0.165972	0.207639	0.249306	59	0.000683

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	6h	7 <sup>h</sup>	8h	9 <sup>h</sup>	10h	1 I p		
m	d	d	d	'd	d	d	s	d
0	0.250000	0.291667	0.333333	0.375000	0.416667	0.458333	0	0,000000
I	250694	292361	334028	375694	417361	459028	I	000012
2	251389	293056	334722	376389	418056	459722	2	000023
3	252083	293750	335417	377083	418750	460417	3	000035
4	252778	294444	336111	377778	419444	461111	4	000046
. 5	0.253472	0.295139	0.336806	0.378472	0.420139	0.461806	5	0,000058
	254167	295833	337500	379167	420833	462500		000069
7 8	254861	296528	338194 338889	379861	421528	463194	7 8	000081
9	255556 256250	297222	339583	380556 381250	422222	463889 464583	9	000093
		0,298611	0.340278		422917 .			3
11	0.256944	299306		0.381944 382639	0.423611 424306	0.465278	10	0.000116
12	257639 258333	300000	340972 341667	383333	424300	466667	12	000127
13	259028	300694	342361	384028	425694	467361	13	000139
14	259722	301389	343056	384722	426389	468056	14	000162
15	0.260417	0.302083	0.343750	0.385417	0.427083	0.468750	15	0.000174
16	261111	302778	344444	386111	427778	469444	16	000185
17	261806	303472	345139	386806	428472	470139	17	000197
18	262500	304167	345833	387500	429167	470833	18	000208
19	263194	304861	346528	388194	429861	471528	19	000220
20	0.263889	0.305556	0.347222	0.388889	0.430556	0.472222	20	0.000231
. 2I	264583	306250	347917	389583	431250	472917	21	000243
22	265278	306944	348611	390278	431,944	473611	22	000255
23	265972	307639	349306	390972	432639	474306	23	000266
24	266667	308333	350000	391667	433333	475000	24	000278
25	0.267361	0.309028	0.350694	0.392361	0.434028	0.475694	25	0.000289
26	268056	309722	351389	393056	434722	476389	26	000301
27	268750	310417	352083	393750	435417	477083	27	000313
28	269444	311111	352778	394444	436111	477778	28	000324
29	270139	311806	353472	395139	436806	478472	29	000336
30	0.270833	0.312500	0.354167	0.395833	0.437500	0.479167	30	0.000347
31	271528	313194	354861	396528	438194	479861	31	000359
32 33	272222 272917	314583	355556 356250	397222 397917	439583	480556 481250	32 33	000382
34	273611	315278	356944	398611	440278	481944	34	000394
35	0.274306	0.315972	0,357639	0.399306	0.440972	0.482639	35	0.000405
36	275000	316667	358333	400000	441667	483333	36	000417
37	275694	317361	359028	400694	442361	484028	37.	000428
38	276389	318056	359722	401389	443056	484722	38	000440
39	277083	318750	360417	402083	443750	485417	39	000451
40	0.277778	0.319444	0.361111	0.402778	0.44444	0.486111	40	0.000463
41	278472	320139	361806	403472	445139	486806	41	000475
42 .	279167	320833	362500	404167	445833	487500	42	000486
43	279861	321528	363194	404861	446528	488194	43	000498
44	280556	322222	363889	405556	447222	488889	44	000509
45	0.281250	0.322917	0.364583	0.406250	0.447917	0.489583	45	0.000521
46	281944	323611	365278	406944	448611	490278	46	000532
47	282639	324306	365972	407639	449306	490972	47	000544
48 49	283333 284028	325000 325694	366667 367361	408333 409028	450000 450694	491667	48 49	000556 000567
-		0.326389	0.368056		0.451389			Contract of the Contract of th
50	0.284722 285417	327083	368750	0.409722	452083	0.493056	50 51	0.000579 000590
51 52	286111	327778	369444	410417 411111	452778	493750	52	000590
53	286806	328472	370139	411806	453472	494444	53	000613
55 54	287500	329167	370833	412500	454167	495833	54	000625
55	0.288194	0.329861	0.371528	0.413194	0.454861	0.496528	55	0.000637
56	288889	330556	372222	413889	455556	497222	56	000648
57	289583	331250	372917	414583	456250	497917	57	000660
58	290278	331944	373611	415278	456944	498611	58	000671
59	0.290972	0.332639	0.374306	0.415972	0.457639	0.499306	59	0.000683

## Julianische Periode

I. Anzahl der am o. Januar, 12h Weltzeit, seit Anfang der Periode verflossenen Tage

ASSESSED FOR	PARTICION NO.	CONTROL OF COLUMN		07 S 300 S	350000000000000000000000000000000000000	1		13-1-2	8 5 5 5	No.
Jahr nach Chr.	0	100	200	300	400	500	600	700	800	900
	17	17	17	18	18	19	19	19	20	20
0	21057	57582	94107	30632	67157	03682	40207	76732	13257	49782
4	22518	59043	95568	32093	68618	05143	41668	78193	14718	51243
8	23979	60504	97029	33554	70079	06604	43129	79654	16179	52704
12	25440	61965	98490	35015	71540	08065	44590	81115	17640	54165
16	26901	63426	99951	36476	73001	09526	46051	82576	19101	55626
20	28362	64887	01412	37937	74462	10987	47512	84037	20562	57087
24	29823	66348	02873	39398	75923	12448	48973	85498	22023	58548
28	31284	67809	04334	40859	77384	13909	50434	86959	23484	60009
32	32745	69270	05795	42320	78845	15370	51895	88420	24945	61470
36	34206	70731	07256	43781	80306	16831	53356	89881	26406	62931
40	35667	72192	08717	45242	81767	18292	54817	91342	27867	64392
44	37128	73653	10178	46703	83228	19753	56278	92803	29328	65853
. 48	38589	75114	11639	48164	84689	21214	57739	94264	30789	67314
52	40050	76575	13100	49625	86150	22675	59200	95725	32250	68775
56	41511	78036	14561	51086	87611	24136	60661	97186	33711	70236
60	42972	79497	16022	52547	89072	25597	62122	98647	35172	71697
64	44433	80958	17483	54008	90533	27058	63583	00108	36633	73158
68	45894	82419	18944	55469	91994	28519	65044	01569	38094	74619
7.2	47355	83880	20405	56930	93455	29980	66505	03030	39555	76080
76	48816	85341	21866	58391	94916	31441	67966	04491	41016	77541
80	50277	86802	23327	59852	96377	32902	69427	05952	42477	79002
84	51738	88263	24788	61313	97838	34363	.70888	07413	43938	80463
88	53199	89724	26249	62774	99299	35824	72349	08874	45399	81924
92	54660	91185	27710	64235	00760	37285	73810	10335	46860	83385
96	56121	92646	29171	65696	02221	38746	75271	11796	48321	84846
100	57582	94107	30632	67157	03682	40207	76732	13257	49782	86307
	17	17	18	18	19	. 19	19	20	20	20

Ia. Anzahl der am o. eines jeden Monats, 12<sup>h</sup> Weltzeit, seit Beginn der Schaltperiode verflossenen Tage

Jahr	Jan. o	Febr. o	März o	April o	Mai o	Juni o	Juli o	Aug. o	Sept. o	Okt. o	Nov.o	Dez. o
0	0	31	60	<b>0</b> 1,	121	152	182	213	244	274	305	335
I	366	397	425	456	486	517	547	578	609	639	670	700
2	731	762	790	821	85I	882	912	943	974	1004	1035	1065
3	1096	1127	1155	1186	1216	1247	1277	1308	1339	1369	1400	1430

I. Anzahl der am o. Januar, 12h Weltzeit, seit Anfang der Periode verflossenen Tage

Jahr nach Chr.	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900
	20	21	21	21	22	22	23	23	23	24
0	86307	22832	59357	95882	32407	68932	05447	41971 <sup>1</sup> )	784951)	150191)
4	87768	24293	60818	97343	33868	70393	06908	43432	79956	16480
8	89229	25754	62279	98804	35329	71854	08369	44893	81417	17941
12	90690	27215	63740	00265	36790	73315	09830	46354	82878	19402
16	92151	28676	65201	01726	38251	74776	11291	47815	84339	20863
20	93612	30137	66662	03187	39712	76237	12752	49276.	85800	22324
24	95073	31598	68123	04648	41173	77698	14213	50737	87261	23785
28	96534	33059	69584	06109	42634	79159	15674	52198	88722	25246
32	97995	34520	71045	07570	44095	80620	17135	53659	90183	26707
36	99456	35981	72506	09031	45556	82081	18596	55120	91644	28168
40	00917	37442	73967	10492	47017	83542	20057	56581	93105	29629
44	02378	38903	7.5428	11953	48478	85003	21518	58042	94566	31090
48	03839	40364	76889	13414	49939	86464	22979	59503	96027	32551
52	05300	41825	78350	14875	51400	87925	24440	60964	97488	34012
56	06761	43286	79811	16336	52861	89386	25901	62425	98949	35473
60	08222	44747	81272	17797	54322	90847	27362	63886	00410	36934
64	09683	46208	82733	19258	55783	92308	28823	65347	01871	38395
68	11144	47669	84194	20719	57244	93769	30284	66808	03332	39856
72	12605	49130	85655	22180	58705	95230	31745	68269	04793	41317
76	14066	50591	87116	23641	60166	96691	33206	69730	06254	42778
80	15527	52052	88577	25102	61627	98152	34667	71191	07715	44239
84_	16988	53513	90038	26563	63088	99603	36128	72652	09176	45700
88	18449	54974	91499	28024	64549	01064	37589	74113	10637	47161
92	19910	56435	92960	29485	66010	02525	39050	75574	12098	48622
96	21371	57896	94421	30946	67471	03986	40511	77035	13559	50083
100	22832	59357	95882	32407	68932	05447	419711)	CONTRACTOR OF THE PARTY OF THE	150191)	51544
	.21	21	21	22	22	23	23	23	24	24

<sup>1)</sup> Die Zahlen geben die am -1. Jan. seit Anfang der Periode verflossenen Tage.

Ia. Anzahl der am o. eines jeden Monats, 12<sup>h</sup> Weltzeit, seit Beginn der Schaltperiode verflossenen Tage

Jahr	Jan. o	Febr. o	März o	April o	Mai o	Juni o	Juli o	Aug. o	Sept. o	Okt. o	Nov.o	Dez. o
ŏ	O <sup>2</sup> )	312)	60	91	121	152	182	213	244	274	305	335
ī	366	397	425	456	486	517	547	578	609	639	670	700
2	731	762	790	821	851	882	912	943	974	1004	1035	1065
3	1096	1127	1155	1186	1216	1247.	1277	1308	1339	1369	1400	1430

Von 1582 Okt. 15 bis 1583 Dez. 31 sind die Zahlen der Tafel Ia um 10 zu verkleinern.

<sup>2)</sup> In den Jahren 1700, 1800, 1900 um 1 zu vergrößern.

## Julianische Periode

II. Anzahl der am o. eines jeden Monats, 12h Weltzeit, seit Beginn der Periode verflossenen Tage

1000	= 3 = U5 .D/	0	1 0	•	0	0	0	0	0	0	0	0
Jahr	Januar o	Febr.	The same of the same of	April	162	-	1	00000	Sept.			
n. Chr.		Fel	März	Αp	Mai	Juni	Juli	Aug.	Se	Okt.	Nov.	Dez.
	Ne Vijenia o	1-1-2-6	16 = 5 5		1900	"ATE	5112	30,000			1 35	FANT I
1860	2400 410		470	501	531	562	592	623	654	684	715	745
1861	779		835	866	896	927	957		*019	STATE AND	*080	
1862	2401 14	3 1 1	200	231	261	292	322 687	353	384	414	445	475
1863 1864	500		565	596	626	657 *023	*053	718 *084	749 *115	779	*176	<b>*</b> 206
1804	87	1 902	931	962	992	arting a	.053	. 084	.115	145	. 170	200
1.865	2402 23	7 268	296	327	357	388	418	449	480	510	541	571
1866	60:		661	692	722	753	783	814	845	875	906	936
1867	96	1.00	*026	*057	*087	811*	*148	*179	*210	All control	*271	*301
1868	2403 33		392	423	453	484	514	545	576	606	637	667
1869	69	8 729	757	788	818	849	.879	910	941	971	*002	*032
1870	2404 06	3 094	122	153	183	214	244	275	306	336	367	397
1871	42	8 459	487	518	548	579	609	640	671	701	732	762
1872	79	3 824	853	884	914	945	975	*006	*037	*067	*098	*128
1873	2405 15	9 190	218	249	279	310	- 340	371	402	432	463	493
1874	52.	4 555	583	614	644	675	705	736	767	797	828	858
1875	88	9 920	948	979	*009	*040	*070	*101	*132	*162	*193	*223
1876	2406 25	4 285	314	345	375	406	436	467	498	528	559	589
1877	62	-	679	710	740	771	801	832	863	893	924	954
1878	98	5 *016	*044	*075	*105	*136	*166	*197	*228	*258	*289	*319
1879	2407 35	0 381	409	440	470	501	531	562	593	623	654	684
1.880	71	5 746	775	806	836	867	897	928	959	989	*020	*050
1881	2408 08	I II2	140	171	201	232	262	293	324	354	385	415
1882	44	6 477	505	536	566	597	627	658	689	719	750	780
1883	81	1 842	870	901	931	962	. 992	*023	*054	*084	*115	*145
1884	2409 17	6 207	236	267	297	328	358	389	420	450	481	511
1885	54	2 573	601	632	662	693	723	754	785	815	846	876
1886	90	7 938	966	997	*027	*058	*o88	*119	*150	*180	*211	*241
1887	2410 27		331	362	392	423	453	484	515	545	576	606
1888	63	AL 2 VALUE 2501	697	728	758	789	819	850	881	911	942	972
1889	2411 00	3 034	062	093	123	154	184	215	246	276	307	337
1890	36	8 399	427	458	488	519	549	580	611	641	672	702
1891	73	3 764	792	823	853	884	914	945	976	*006	*037	*067
1892	2412 09	8 129	158	189	219	250	280	311	342	372	403	433
1893	46	4 495	523	554	584	615	645	676	707	737	768	798
1894	, 82	9 860	888	919	949	980	*010	*041	*072	*102	*133	*163
1895	2413 19	4 225	253	284	314	345	375	406	437	467	498	528
1896	55	9 590	619	650	680	711	741	772	803	833		894
1897	92		984	*015	*045	*076	*106	*137	*168	*198	*229	*259
1898	2414 29		349	380	410	441	471	502	533	563	594	624
1899	.65	5 686	714	745	775	806	836	867	898	928	959	989

II. Anzahl der am o. eines jeden Monats, 12<sup>h</sup> Weltzeit, seit Beginn der Periode verflossenen Tage

					0		4		1,-1,-2,1	1	0	0
Jahr	Towns	F. 0	0 Z	il o	- 305 2	.4		0	t.	0	and the second	160 200
n. Chr.	Januar o	Febr.	März	April	Mai	Juni	Juli	Aug.	Sept.	Okt.	Nov.	Dez.
1900	2415 020	051	079	. 110	140	171	201	232	263	293	324	354
1901	385	416	444	475	505	536	566	597	628	658	689	719
1901	750	781	809	840	870	901	931	962	993	*023		
1903	2416 115	146	174	205	235	266	296	327	358	388	419	449
1904	480	511	540	571	601	632	662	693	724	754	785	815
1 1 1 1		A SECTION		16 125		E 43	2 7 7 7		- 113	STEEL AND		Marie 15
1905	846	877	905	936	966	997	7300 100		*089	*119		
1906	2417 211	242	270	301 666	331	362	392	423	454	484	515 880	545
1907	576	607	635 *001	TOO STATE	*062	727 *093	757 *123	788 *154	819 *185	849	*246	910
1908	941		366	25/20/20/20				1000			611	641
1909	2418 307	338	100	397	427	458.	488	519	550	500		1 1 3
1910	672	703	731	762	792	823	853	884	915	945	976	
1911	2419 037	068	096	. 127	157	188	218	249	280	310	341	37.1
1912	402	433	462	493	523	554	584	615	646	676	707	737
1913	768	799	827	858	888	919	949	980	F- 10. 1	U 2/2/1	*072	
1914	2420 133	164	192	223	253	284	314	345	376	406	437	467
1915	498	529	557	588	618	649	679	710	741	771	802	832
1916	863	894	923	954	984	*015	*045	*076	*107	*137	*168	*198
1917	2421 229	260	288	319	349	380	410	441	472	502	533	563
1918	594	625	653	684	714	745	775	806	837	867	898	928
1919	959	990	*018	*049	*079	*110	*140	*171	*202	*232	*263	*293
1920	2422 324	355	384	415	445	476	506	537	568	598	629	659
1921	690	721	749	,780	810	841	871	902	933	963	994	*024
1922	2423 055	086	114	145	175	206	, 236	267	298	328	359	389
1923	420	451	479	510	540	571	601	632	663	693	724	754
1924	785	816	845	876	906	937	967	998	*029	*059	*090	*120
1925	2424 151	182	210	241	271	302	332	363	394	424	455	485
1926	516	547	575	606	636	667	697	728	759	789	820	850
1927	188	912	940	971	*001	*032	*062	*093	*124	*154	*185	
1928	2425 246	277	306	337	367	398	428	459	<b>490</b>	520	551	581
1929	612	643	671	702	732	763	793	824	855	885	916	946
1930	977	*008	*036	*067		*128	*158	*189	*220	*250	*281	
1931	2426 342	373	401	432	462	493	523	554	585	615	646	676
1932	70.7	738	767	798	828	859	889	920	951		*012	
1933	2427 073	104	132	163	193	224	254	285	316	346	377	407
1934	438	469	497	528	558	589	619	650	681	711	742	772
1935	803	834	862	893	923	954	-	*015	*046	*076	*107	
1936	2428 168	199	228	259	289	320	350	381	412	442	473	503
1937	534	565	593	624	654	685	715	746		807	838	868
1938	899	930	958	The second second	*019	CRI COLLEGE		*111		Decision of Congress of	*203	
1939	2429 264	295	323	35.4	.384	415	445	476	507	537	568	598

# Julianische Periode

II. Anzahl der am o. eines jeden Monats. 12<sup>h</sup> Weltzeit, seit Beginn der Periode verflossenen Tage

		0	0	0	0	- 0	•	0	0		0	0
Jahr	Januar		A STATE OF THE PARTY OF THE PAR		- C. C.	912 To 1	105 83	5- 691910	Total Control	1,000	- 3 7 7 7 7 7 7 7	TABLE IN
n. Chr.		Febr.	März	April	Mai	Juni	Juli	Aug.	Sept.	Okt.	Nov.	Dez.
		1000			BY AND	27.5		10.3%		4	100	200
1940	2429 629	660	689	720	750	781	811	842	873	903	9.34	964
1941		*026		*085		*146	*176	ALL MARKS	*238	William W.	*299	*329
1942	2430 360	391	419	450	480	511	541	572	603	633	664	694
1943	725	756	784	815	845	876	906	937	968	PC 100 2 W To		*059
1944	2431 090	121	150	181	211	242	272	303	334	364	395	425
1945	456	487	515	546	576	607	637	668	699	729	760	790
1946	821	852	880	911	941	972	*002		*064	*094	*125	*155
1947	2432 186	217	245	276	306	337	367	398	429	459	490	520
1948	551	582	611	642	672	703	733	764	795	825	856	886
1949	917	948	976	*007	*037	*o68	*098	*129	*160	*190	*221	*251
1950	2433 282	313	341	372	402	433	463	494	525	555	586	616
1951	647	678	706	737	767	798	828	859	890	920	951	981
1952	2434 012	043	072	103	133	164	194	225	256	286	317	347
1953	378	409	437	468	498	529	559	590	621	651	682	712
1954	743	774	802	833	863	894	924	955	986	*016	*047	*077
1955	2435 108	139	167	198	228	259	289	320	351	381	412	442
1956	473.	504	533	564	594	625	655	686	717	747	778	808
1957	839	870	898	929	959	990	*020	*051	*082	*112		*173
1958	2436 204	235	263	294	324	355	385	416	447	477	508	538
1959	569	600	628	659	689	720	750	781	812	842	873	903
1960	934	965	994	*025	*055	*086	*116	*147	*178	*208	*239	*.269
1961	2437 300	331	359	390	420	451	481	512	543	573	604	634
1962	665	696	724	755	785	816	846	877	908	938	969	999
1963	2438 030	061	089	120	150	181	211	242	273	303	334	364
1964	395	426	455	. 486	516	547	577	608	639	669	700	730
1965	761	792	820	851	881	912	942	973	*004	*034	*065	*095
1966	2439 126	157	185	216	246	277	307	338	369	399	THE PERSON NAMED IN	460
1967	491	522	550	581	611	642	672	703	734	764	0000015000	825
1968	856	887	916	947	977	*008	*038	*069	*100	*130	*161	*191
1969	2440 222	253	281	312	342	373	403	434	465	495	526	556
1970	587	618	646	677	707	738	768	799	830	860	891	921
1971	952	A THE STREET	*011		*072						*256	
1972	2441 317	348	377	408	438	469	499	530	561	591	622	652
1973	683	714	742	773	803	834	864	895	926	956		*017
1974	2442 048		107	138	168	199	229	260	291	321	352	382
1975	413	• 444	472	503	533	564	594	625	656	686	717	747
1976	778	809	838	869	899	930	960		*022		*083	
1977	2443 144	175	203	234	264	295	325	356	387	417	COMPANSE?	478
1978	509	540	568	599	629	660	690	721	752	782		843
1979	2443 874	905	933	964		*025			*117		*178	
10 5 T 10 10 10 10 10 10 10 10 10 10 10 10 10	200 Car 125 Car 1	100000000000000000000000000000000000000	STOCKED ST	Ed St. A	505	500200	STATE OF STREET			7 MASS	STATE OF STREET	

# Hilfsgrößen

#### zur Berechnung der geozentrischen Koordinaten

 $\rho \sin \varphi' = s \sin \varphi;$ 

 $\rho \cos \varphi' = c \cos \varphi$ 

φ	. log s	log c	φ	log s	log c
士。	9.9970705	0.0000000	±40	9.9976745	0,0006040
1	.9970709	.0000004	41	.9976997	.0006292
2	.9970723	.0000018	42	.9977251	.0006546 254
3	.9970745	.0000040	43	.9977506 255	.0006801 255
4	.9970776	.0000071 31	44	.9977761 255	.0007056 255
5	0.0070816	0.0000111	. 45	0.0078016	0.0007311
6	.9970865	.0000160 49	46	.9978272	.0007567 256
7.	.9970922 57	.0000217 66	47	.9978527 255	.0007822 255
8	.9970988	.0000283	48	.9978782 254	.0008077 255
. 9	.9971062 74	.0000357 83	49	.9979036 252	.0008331 252
10	9.9971145	0.0000440	50	0.0070288	0,0008583
11	.9971237	.0000532	51	.9979540	;0008835 252
12	.9971336 99	.0000631 108	52	.9979789	0009084
13	.9971444	.0000739 116	53	.9980036 245	.0009331 247
14	.9971560	.0000855	.54	.9980281	.0009576
15	0.0071683	0.0000978	55	0.0080523	0.0009818
16	.9971814	.0001109	56	.9980762	.0010057
17	.0071053	0001248	57	.9980997	.0010292
18	.9972099	.0001304	58	.0081220	.0010524
19	.9972253 160	.0001548 160	59	.9981457	.0010752
20	0.0072413	0.0001708	60	0.0081681	0.0010976
21	.9972581	.0001876	61	.0081001	.0011196
22	.9972755	.0002050 174	62	.0082116	.0011411
23	.9972935	.0002230 187	63	.9982325	.0011620 209
24	.9973122	.0002417	64	.9982530 199	.0011825
25	0.0073314	0.0002609	65	9.9982729	0.0012024
26	.9973512	.0002807	66	.9982922 188	.0012217
27	.9973512	.0003011	67	.9983110	.0012405
28	.9973925 214	.0003220	68	.9983291	.0012586
29	.9974139 219	.0003434	69	.9983466 168	.0012761 168
30	9.9974358	0.0003653	70	9.9983634	0.0012929
31	.9974581	.0003876	71	.9983795	.0013090
32	.9974808 232	.0004103	72	.9983949	.0013244
33	.9975040 235	.0004335	73	.9984090	.0013391
34	.9975275 238	,0004570 238	74	.9984236	.0013531
35	9.9975513	0.0004808	75	9.9984368	0.0013663
36	·9975754 245	.0005049	76	.9984492	.0013787
37	9975999 246	.0005294 246	77	.9984609 108	.0013904 108
38	.9976245	.0005540	78	.9984717	.0014012
39	.9976494 251	.0005789 251	79	.9984817	.0014112
40	9.9976745	0.0006040	80	9.9984909	0.0014204

## Halber Tagbogen

366*	Halber Tagbogen										
δΦ	+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
0	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
<b>-3</b> o	4 45.4	4 38.8	4 31.8	4 24.4	4 16.5	4 8.1	3 58.9	3 48.9	3 37.9	3 25.7	3 11.8
29 28.	4 48.6	4 42.3	4 35.6	4 28.6	4 21.1	4 13.0	4 4.3	3 54.9	3 44.5	3 33.0	3 20.1
27	4 51.7	4 45.7	4 39.3	4 32.6	4 25.5	4 17.8	4 9.6	4 0.7	3 50.9	3 40.1	3 28.0
26	4 57.7	4 52.2	4 46.5	4 40.4	4 33.9	4 27.1	4 19.7	4 11.7	4 3.0	3 53.4	3 42.8
25	5 0.6	4 55.4	4 49.9	4 44.2	4 38.0	4 31.5	4 24.5	4 16.9	4 8.7	3 59.7	3 49.7
* 24	5 3.5	4 58.5	4 53.3	4 47.8	4 42.0	4 35.8	4 29.2	4 22.0	4 14.3	4 5.8	3 56.5
23	5 6.3	5 1.6	4 56.6	4 5T.4	4 45.9	4 40.1	4 33.8	4 27.0	4 19.7	4 11.8	4 3.0
22 21	5 9.0 5 II.7	5 4.6	4 59.9 5 3.1	4 55.0	4 49.7	4 44.2 4 48.3	4 38.3	4 31.9	4 25.0	4 17.5	4 9.3 4 I5.4
-20	5 14.4	5 10.4	5 6.2	5 1.8	4 57.2	4 52.3	4 47.0	4 41.3	4 35.3	4 28.7	4 21.4
19	5 17.0	5 13.3	5 9.3	5 5.2	5 0.8	4 56.2	4 51.2	4 45.9	4 40.2	4 34.0	4 27.3
18	5 19.6	5 16.1	5 12.4	5 8.5	5 4.4	5 0.0	4 55.4	4 50.4	4 45.I	4 39-3	4 33.0
17	5 22.2	5 18.9	5 15.4	5 11.7	5 7.9	5 3.8	4 59.5	4 54.9	4 49.9	4 44.5	4 38.6
16	5 24.7 5 27.2	5 21.6	5 18.4	5 14.9 5 18.1	5 11.4	5 7.5 5 11.2	5 3.5	4 59.2	4 54.6	4 49.5	4 44.I
15 14	5 27.2	5 24.3 5 27.0	5 21.3	5 18.1	5 18.2	5 14.9	5 7.5 5 II.4	5 3.5 5 7.7	4 59.2 5 3.7	4 54.5	4 49.5
13	5 32.1	5 29.7	5 27.1	5 24.4	5 21.5	5 18.5	5 15.3	5 11.9	5 8.2	5 4.3	5 0.0
12	5 34.6	5 32.3	5 29.9	5 27.4	5 24.8	5 22.1	5 19.1	5 16.0	5 12.6	5 9.0	5 5.1
II	5 37.0	5 34.9	5 32.7	5 30.5	5 28.1	5 25.6	5 22.9	5 20.1	5 17.0	5 13.7	5 10.2
-10	5 39.4	5 37.5	5 35.5	5 33.5	5 31.3	5 29.1	5 26.7	5 24.1	5 21.4	5 18.4	5 15.2
.8	5 4I.7 5 44.I	5 40.1	5 38.3 5 41.1	5 36.5 5 39.5	5 34.6 5 37.8	5 32.5 5 36.0	5 30.4	5 28.I 5 32.I	5 25.7 5 29.9	5 23.0 5 27.6	5 20.2 5 25.1
7	5 46.4	5 45.2	5 43.8	5 42.4	5 41.0	5 39.4	5 37.8	5 36.0	5 34.2	5 32.2	5 30.0
6	5 48.8	5 47.7	5 46.6	5 45.4	5 44.1	5 42.8	5 41.4	5 40.0	5 38.4	5 36.7	5 34.9
5	5 51.1	5 50.2	5,49.3	5 48.3	5 47.3	5 46.2	5 45.1	5 43.9	5 42.6	5 41.2	5 39-7
4	5 53.4	5 52.7	5 52.0	5 51.2	5 50.4	5 49.6	5 48.7	5 47.8 5 51.6	5 46.8	5 45.7	5 44.5
3 2	5 55.8 5 58.1	5 55.2 5 57.7	5 54·7 5 57·4	5 54.I 5 57.I	5 53.6 5 56.7	5 53.0	5 52.3 5 55.9	5 55.5	5 50.9 5 55.1	5 50.1 5 54.6	5 49.3 5 54.1
- I	6 0.4	6 0.2	6 0.1	6 0.0	5 59.8	5 59.7	5 59.5	5 59.4	5 59.2	5 59.0	5 58.9
0	6 2.7	6 2.7	6 2.8	6 2.9	6 2.9	6 3.0	6 3.1	6 3.2	6 3.4	6 3.5	6 3.6
+ 1	6 5.0	6 5.2	6 5.5	6 5.8	6 6.1	6 6.4	6 6.7	6 7.1	6 7.5	6 7.9	6 8.4
2	6 7.3	6 7.7	6 8.2	6 8.7	6 9.2	6 9.8	6 10.3	6 11.0	6 11.6	6 12.4	6 13.2 6 18.0
3 4	6 9.6	6 10.3	6 10.9	6 11.6	6 12.3	6 13.1	6 14.0 6 17.6	6 14.8	6 15.8	6 16.8	6 22.8
5	6 14.3	6 15.3	6 16.4	6 17.5	6 18.6	6 19.9	6 21.2	6 22.6	6 24.2	6 25.8	6 27.6
6	6 16.6	6 17.8	6 19.1	6 20.4	6 21.8	6 23.3	6 24.9	6 26.6	6 28.4	6 30.4	6 32.5
7 8	6 19.0	6 20.4	6 21.8	6 23.4	6 25.0	6 26.7	6 28.6	6 30.5	6 32.6	6 34.9	6 37.4
9	6 21.3	6 22.9	6 24.6	6 26.4	6 28.2	6 30.2	6 32.3	6 34.5 6 38.5	6 36.9 6 41.2	6 39.5 6 44.1	6 42.3
10	6 26.1	6 28.1	6 30.2	6 32.4	6 34.7	6 37.2	6 39.8	6 42.5	6 45.6	6 48.8	6 52.3
+11	6 28.5	6 30.7	6 33.0	6 35.4	6 38.0	6 40.7	6 43.6	6 46.6	6 49.9	6 53.5	6 57.4
12	6 31.0	6 33.4	6.35.9	6 38.5	6 41.3	6 44.3	6 47.4	6 50.8	6 54.4	6 58.3	7 2.5
13	6 33.4	6 36.0	6 38.8	6 41.6	6 44.7	6 47.9	6 51.3	6 54.9	6 58.9	7 3.1	7 7.8
· 14	6 35.9 6 38.4	6 38.7	6 41.7	6 44.8	6 48.0	6 51.5	6 55.2 6 59.2	6 59.2 7 3.5	7 3·4 7 8.1	7 8.0 7 13.0	7 13.1 7 18.5
16	6 41.0	6 44.2	6 47.6	6 51.2	6 54.9	6 58.9	7 3.2	7 7.8	7 12.7	7 18.1	7 23.9
17	6 43.5	6 47.0	6 50.6	6 54.4	6 58.5	7 2.7	7 7.3	7 12.2	7 17.5	7 23.3	7 29.5
18	6 46.1	6 49.8	6 53.7	6 57.7	7 2.0	7 6.6	7 11.5	7 16.7	7 22.4	7 28.5	7 35.3
19	6 48.8	6 52.7	6 56.8	7 1.1	7 5.7	7 10.5	7 15.7	7 21.3	7 27.4	7 33.9	7 41.1
20	6 51.5	6 55.6	6 59.9	7 4.5	7 9.4	7 14.5	7 20.1	7 26.0	7 32.4	7 39-4	7 47.1
+2I 22	6 54.2 6 56.9	7 1.6	7 3.I 7 6.4	7 8.0	7 13.1 7 17.0	7 18.6	7 24.5 7 29.0	7 30.8	7 37.6	7 45.I 7 50.9	7 53·3 7 59.6
23	6 59.8	7 4.6	7 9.7	7 15.1	7 20.9	7 27.0	7 33.6	7 40.7	7 48.4	7 56.8	8 6.1
24	7 2.6	7 7.7	7 13.1	7 18.8	7 24.9	7 31.3	7 38.3	7 45.8	7 54.0	8 2.9	8 12.9
25	7 5.6	7 10.9	7 16.6	7 22.6	7 29.0	7 35.8	7 43.1	7 51.1	7 59.8	8 9.3	8 19.9
26 27	7 8.5	7 14.2	7 20.1 7 23.8	7 26.4	7 33.2 7 37.5	7 40.4	7 48.1	7 56.5	8 5.7	8 15.8	8 27.1 8 34.7
28	7 14.7	7 20.9	7 27.5	7 34.4	7 41.9	7 49.9	7 58.5	8 7.9	8 18.2	8 29.7	8 42.6
29	7 17.9	7 24.4	7 31.3	7.38.6	7 46.4	7 54.8	8 3.9	8 13.9	8 24.8	8 37.1	8 51.0
+30	7 21.2	7 28.0	7 35.2	7 42.9	7 51.1	7 59.9	.8 9.5	8 20.1	8 31.7	8 44.8	8 59.7

			12.4	Hai	ner 1	agnug	3CII				307
δΦ	+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
•	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
-30	3 11.8	3 4.1	2 55.8	2 46.8	2 36.9	2 25.9	2 13.5	I 59.3	I 42.4	I 2I.I	0 49.7
29	3 20.1	3 12.9	3 5.3	2 57.0	2 48.0	2 38.1	2 27.1	2 14.7	2 0.4	I 43.4	1 21.9
28	3 28.0	3 21.3	3 14.2	3 6.6	2 58.3	2 49.3	2 39.4	2 28.4	2 15.9	2 1.6	I 44.5
27	3 35.5	3 29.3	3 22.7	3 I5.7	3 8.0	2 59.8	2 50.8	2 40.8	2 29.8	2 17.3	2 2.9
26	3 42.8	3 37.0	3 30.8 3 38.6	3 24.2	3 17.2	3 9.6 3 18.9	3 I.4 3 II.3	2 52.4 3 3.I	2 42.4 2 54.I	2 31.3	2 18.8
25 24	3 49·7 3 56.5	3 44·3 3 51·4	3 46.0	3 40.3	3 25.9	3 27.8	3 11.3	3 3.I 3 I3.2	2 54.I 3 5.0	2 44.1	2 33.0
23	4 3.0	3 58.2	3 53.2	3 47.9	3 42.3	3 36.2	3 29.8	3 22.8	3 15.3	3 7.1	2 58.0
22	4 9.3	4 4.9	4 0.2	3 55.2	3 50.0	3 44.3	3 38.4	3 31.9	3 25.0	3 17.5	3 9.3
21	4 15.4	4 11.3	4 6.9	4 2.3	3 57-4	3 52.2	3 46.6	3 40.7	3 34.3	3 27.4	3 19.9
-20	4 21.4	4 17.5	4 13.5	4 9.1	4 4.6	3 59.8	3 54.6	3 49.1	3 43.2	3 36.9	3 30.0
19	4 27.3	4 23.7	4 19.9	4 15.8	4 11.6	4 7.1	4 2.3	3 57.2	3 51.8	3,45.9	3 39.6
18	4 33.0	4 29.6	4 26.1	4 22.3	4 18.4	4 14.2	4 9.8	4 '5.I	4 0.1	3 54.7	3 48.9
17 16	4 38.6 4 44.I	4 35.4 4 41.2	4 32.1	4 28.7	4 25.0	4 21.1	4 17.0 4 24.1	4 12.7	4 8.1	4 3.1	3 57.8
15	4 49.5	4 46.8	4 43.9	4 41.0	4 37.8	4 34.5	4 31.0	4 27.4	4 23.4	4 19.3	4 6.4
14	4 54.8	4 52.3	4 49.7	4 46.9	4 44.1	4 41.0	4 37.8	4 34.4	4 30.8	4 27.0	4 22.9
13	5 0.0	4 57.7	4 55.3	4 52.8	4 50.2	4 47.4	4 44.5	4 41.4	4 38.1	4 34.6	4 30.9
12	5 5.1	5 3.0	5 0.9	4 58.6	4 56.2	4 53.7	4 51.0	4 48.2	4 45.2	4 42.0	4 38.7
II	5 10.2	5 8.3	5 6.4	5 4.3	5 2.1	4 59.8	4 57.4	4 54.9	4 52.2	4 49.3	4 46.3
-10	5 15.2	5 13.5	5 11.8	5 9.9	5 7.9	5 5.9	5 3.7	5 I.5	4 59.1	4 56.5	4 53.8
9	5 20.2	5 18.7	5 17.1	5 15.5	5 13.7	5 11.9	5 10.0	5 8.0	5 5.8	5 3.6	5 1.2
7	5 25.I 5 30.0	5 23.8 5 28.9	5 22.4	5 21.0	5 19.5 5 25.1	5 17.9 5 23.8	5 16.2 5 22.3	5 14.4 5 20.8	5 12.5 5 19.2	5 IO.6 5 I7.5	5 8.5 5 15.7
6	5 34.9	5 33.9	5 32.9	5 31.8	5 30.7	5.29.6	5 28.4	5 27.1	5 25.7	5 24.3	5 22.8
5	5 39.7	5 38.9	5 38.1	5 37.2	5 36.3	5 35.4	5 34.4	5 33.4	5 32.2	5 31.1	5 29.9
4	5 44.5	5 43.9	5 43.3	5 42.6	5 41.9	5 41.2	5 40.4	5 39.6	5 38.7	5 37.8	5 36.9
3	5 49.3	5 48.9	5 48.4	5 47.9	5 47.4	5 46.9	5 46.3	5 45.8	5 45.2	5 44.5	5 43.8
2	5.24.1	5 53.8	5 53.5	5 53.3	5 52.9	5 52.6	5 52.3	5 52.0	5 51.6	5 51.2	5 50.8
<u> </u>	5 58.9	5 58.8	5 58.7	5 58.6	5 58.4	5 58.3	5 58.2	5 58.1	5 58.0	5 57.9	5 57.7
0	6 3.6	6 3.7	6 3.8	6 3.9	6 4.0	6 4.1	6 4.2	6 4.3	6 4.4	6 4.5	6 4.7
+ I	6 8.4	6 8.6	6 8.9	6 9.2	6 9.5	6 9.8	6 10.1	6 10.4	6 10.8	6 11.2	6 11.6
3	6 13.2	6 13.6	6 14.0	6 14.5	6 15.0	6 15.5	6 16.0	6 16.6	6 17.2	6 17.8	6 18.5
4	6 22.8	6 23.5	6 24.4	6 25.2	6 26.1	6 27.0	6 28.0	6 29.0	6 30.1	6 31.3	6 32.5
5	6 27.6	6 28.6	6 29.6	6 30.6	6 31.7	6 32.8	6 34.0	6 35.3	6 36.6	6 38.1	6 39.6
6	6 32.5	6 33.6	6 34.8	6 36.0	6 37.3	6 38.7	6 40.1	6 41.6	6 43.2	6 44.9	6 46.7
7	6 37.4	6 38.7	6 40.0	6 41.5	6 43.0	6 44.6	6 46.2	6 48.0	6 49.8	6 51.8	6 53.9
8	6 42.3	6 43.8	6 45.3	6 47.0	6 48.7	6 50.5	6 52.4	6 54.4	6 56.5	6 58.8	7 1.2
9 10	6 47.3	6 48.9	6 50.7	6 52.6	6 54.5	6 56.5	6 58.7	7 0.9	7 .3.3	7 5.9 7 13.1	7 8.6
+11		6 54.1			7 0.3		7 5.0	7 7.5		-	
12	6 57.4	7 4.8	7 7.2	7 3.9	7 6.3	7 8.8	7 11.4	7 14.2 7 21.1	7 17.2	7 20.4	7 23.8
13	7 7.8	7 10.2	7 12.8	7 15.5	7 18.4	7 21.4	7 24.6	7 28.0	7 31.6	7 35.4	7 39.5
14	7 13.1	7 15.7	7 18.6	7 21.5	7 24.6	7 27.9	7 31.4	7 35.1	7 39.0	7 43.2	7 47.7
15	7 18.5	7 21.4	7 24.4	7 27.6	7 31.0	7 34.6	7 38.3	7 42.4	7 46.6	7 51.2	7 56.1
16	7 23.9	7 27.1	7 30.4	7 33.8	7 37.5	7 41.4	7 45.4	7 49.8	7 54.4	7 59.4	8 4.7
17	7 29.5	7 32.9 7 38.9	7 36.5	7 40.2	7 44.1	7 48.3	7 52.7 8 0.2	7 57·4 8 5.3	8 2.5 8 10.8	8 7.9	8 13.7 8 23.0
19	7 35.3	7 45.0	7 42.7 7 49.1	7 46.7	7 50.9	7 55.4	8 7.9	8 5.3 8 13.4	8 19.4	8 25.7	8 32.6
20	7 47.1	7 51.3	7 55.6	8 0.3	8 5.2	8 10.4	8 15.9	8 21.9	8 28.3	8 35.2	8 42.8
+21	7 53.3	7 57.7	8 2.4	8 7.3	8 12.6	8 18.2	8 24.2	8 30.7	8 37.6	8 45.2	8 53.5
22	7 59.6	8 4.3	8 9.4	8 14.7	8 20.3	8 26.4	8 32.8	8 39.8	8 47.4	8 55.7	9 4.8
23	8 6.r	8 11.2	8 16.6	8 22.3	8 28.3	8 34.9	8 41.9	8 49.5	8 57.7	9 6.8	9 16.9
24	8 12.9	8 18.3	8 24.0	8 30.2	8 36.7	8 43.8	8 51.4	8 59.6	9 8.7	9 18.8	9 30.0
25	8 19.9	8 25.7	8 31.8	8 38.4	8 45.5	8 53.1	9 1.4	9 10.5	9 20.5	9 31.7	9 44.4
26 27	8 27.I 8 34.7	8 33.4 8 41.4	8 40.0 8 48.5	8 47.0 8 56.1	8 54.7	9 3.0	9 12.1	9 22.1	9 33.2	9 45.9	10 0.6
28	8 42.6	8 49.8	8 57.5	9 5.8	9 4.4	9 24.8	9 35.9	9 48.5	10 3.1	10 20.5	10 42.9
29	8 51.0	8 58.7	9 7.0	9 16.1	9 26.0	9 37.1	9 49.6		10 21.5	10 43.7	11 18.1
+30	8 59.7	9 8.1	9 17.2	9 27.1	9 38.2	9 50.7		10 22.3	10 44.4	-	= = 5

## Reduktionstafel

#### für den Auf- und Untergang der Sonne Das obere Vorzeichen gilt für den Aufgang, das untere Vorzeichen für den Untergang

				Geo	grap	hisch	e Bro	eite		-	
Tag	+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
1947	m	m	m	m	m	m	m	m	m	m	m
Jan. 1	干62.8	干58.1	干53.2	干48.1	干42.7	干36.7	干30.5	干23.8	干16.5	干 8.7	0.0
II	干58.7	干54.2	干49.7	干44.8	干39.8	干34-3	42000	干22.2	Charles 4	〒 8.0	0.0
21	干52.5	于48.5	干44.4	干39.9	干35.4	干30.5	于25.3	干19.8	干13.7	干 7.1	0.0
31	THE PARTY OF	于41.3	干37.7	于34.0	十30.0	干25.9	干21.4		100 100 100	于 6.0	0.0
Febr. 10	干35.9	干33.2	干30.3	干27.3	干24.2.	+20.7	干17.1	干13.3	干 9.3	干 4.8	0.0
20	∓26,6	干24.6	∓22.4	干20.2	于17.9	丰15.3	丁12.6	于 9.8	∓ 6.8	王 3.5	0.0
März 2	<b>丰17.1</b>	丰15.7	<b>=</b> 14.3	丰12.9				干 6.2	<b>±</b> 4.3	干 2.2	0.0
12	于 7.4	干 6.8	干 6.2	干 5.6		<b>∓</b> 4.1		干 2.7	干 1.9	于 0.9	0,0
22	土 2.3	土 2.2	土 2.0	士 1.9	± 1.6		土 1.2	士 0.9	士 0.6	士 0.3	0.0
April 1	土12.0	±11.1	±10.1	士 9.2	± 8.1	土 7.0	士 5.8	士 4.5	± 3.1	± 1.6	0.0
11	107.5	1 00 0	±18.3	±16.5	1 74 5	1.00	1.00	± 8.1	1	1 20	0.0
21	$\pm 21.7$ $\pm 31.2$	±20.0 ±28.7	土26.3	士23.7	±14.5 ±20.8	±12.5 ±18.0	±10.3 ±14.9	土11.6	士 5.5 士 8.0	土 2.9	0.0
Mai r	100 HOLDS	$\pm 37.2$	$\pm 34.0$	士30.7	$\pm 27.1$	$\pm 23.4$	土14.9	土15.1	± 10.5	士 5.5	0.0
II	士48.9	士45.2	士41.3	士37.3	$\pm 33.2$	$\pm 28.5$	$\pm^{19.5}$	$\pm 18.4$	$\pm 12.8$	士 6.7	0,0
21	士56.5	士52.4	士47.9	士43.3	士38.5	±33.1	士27.5	土21.5	土14.9	土 7.8	0.0
	Para Salar		337000	ME 35	⊥30.3		127.3	121.5	1.4.9		
31	±62.8	士58.3	士53.4	士48.2	士42.8	士36.9	士30.7	土24.0	土16.8	土.8.8	0.0
Juni 10		±62.1	土57.0	士51.5	士45.7	±39.6	士33.0	土25.9	土18.0	士 '9.5	0.0
20	士68.8	<del>+63.8</del>	士58.6	士52.9	The second second	士40.7	士33.9	±26.6	±18.5	士 9.8	0.0
30	±68.0	±63.0	土57.8	士52.2	土46.4	士40.1	士33.4	±26.2	±18.2	士 9.6	0.0
Juli 10	±64.6	士59.8	士54.9	±49.6	±44.1	士38.1	士31.7	土24.8	土17.2	土 9.1	0.0
20	士59.1	士54.7	±50.1	±45.2	土49.2	士34.7	±28.8	+22.6	±15.6	± 8.2	0.0
30	The state of the s	±48.0	±44.1	士39.7	±35.2	±30.3	±25.2		土13.7	土 7.1	0.0
Aug. 9	±43.7	±40.4	士37.0	±33.3	±29.6	士25.4	±21.1	±16.5	±11.5	士 5.9	0.0
19	±34.8	士32.2	士29.4	士26.5	±23.5	±20.2	±16.8	土13.0	士 9.1	士 4.7	0.0
29	士25.5	±23.6	±21.6	土19.5	土17.2	±14.8	±12.3	士 9.5	士 6.7	士 3.4	0.0
Sept. 8	1 -6	1 0	1 6	1.00	1 70 0		1300	± 6.0		+ 2,1	0.0
18	士16:1	±14.8 ± 6.0	±13.6 ± 5.5	±12.3 ± 5.0	±10.9 ± 4.5	$\pm 9.3 \\ \pm 3.8$	士 7.7	士 2.5	士 4.2 1.8	士 2.1	0.0
28	于 3.0	于 2.8	王 2.5	于 2.2		士 1.7	干 1.4		THE RESERVE OF THE PERSON NAMED IN	于 0.4	0.0
Okt. 8	干12.7	<b>丰11.6</b>	十10.5			十 7.2	于 5.9		2007 100 100 100 100	干 1.6	0.0
18	A STATE OF THE PARTY OF THE PAR	¥20.4	<del>+</del> 18.6	干16.7	干14.7	十12.7	干10.4	The second second second	于 5.5	<b>丰 2.9</b> ·	0.0
	1000	40000			50 G 20	1					
28	干31.5	AND 1702-12251	于26.5		干21.0		干14.9		干 8.0		0.0
Nov. 7	A STATE OF THE PARTY OF	the Park County of the County	THE RESERVE OF THE PARTY OF THE	干30.7		干23.3	干19.3		于10.3	王 5.5	0.0
17	干48.7	State of the last		干37.1		干28.2		平18.2	ALL THE TOTAL STATE OF	干 6.7	0.0
27		and the same of the same		干42.6	20 11 11 11	干32.4	平27.0		干14.7	干 7.7	0.0
Dez. 7	干61.0	干56.4	干51.6	干46.6	干41.3	干35.6	干29.6	+23.2	干16.1	干 8.5	0.0
17	干63.9	干59.1	干54.1	干48.9	于43.3	干37.4	干31.1	干24.3	<b></b> ∓16.9	干 8.9	0.0
A STATE OF THE PARTY OF THE PAR	干63.9	THE RESERVE OF THE PARTY OF THE									0,0
	干61.2										0.0
	BOOK STREET, THE	all the same	5000 B 100	TW-1 14 (195)	12 Sept 15 10	Plant Sale	and the second	50 305050	C 9790 C 14	STATE OF THE PARTY	

### Reduktionstafel

#### für den Auf- und Untergang der Sonne Das obere Vorzeichen gilt für den Aufgang, das untere Vorzeichen für den Untergang

- T	Geographische Breite										
Tag	+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
1947 Jan. 1	CONTRACTOR OF STREET	m ± 4.7	m ± 9.6	m ±14.8	m ±20.5	m ±26.4	m ±32.8	m ±39.7	m 土47.1	m ±55.2	m ±64.0
11 21 31 Febr. 10	0.0	士 4.4 士 3.8 士 3.2 士 2.5	士 8.9 士 7.9 士 6.6 士 5.2	$\pm 13.8$ $\pm 12.1$ $\pm 10.2$ $+ 8.1$	±18.9 ±16.7 ±13.9 ±11.0	士24.5 士21.4 士17.9 十14.2	$\pm 30.3$ $\pm 26.5$ $\pm 22.1$ $\pm 17.4$	$\pm 36.5$ $\pm 31.9$ $\pm 26.5$ $+ 20.8$	$\pm 43.2$ $\pm 37.7$ $\pm 31.3$ $+ 24.6$	$\pm 50.6$ $\pm 43.9$ $\pm 36.4$ $+28.5$	±58.5 ±50.6 ±41.8 ±32.7
20 März 2	0.0	士 1.8 士 1.2 士 0.5	士 3.8 士 2.4 士 1.0	± 5.9 ± 3.8 ± 1,6	± 8.0 ± 5.1 ± 2.2	±10.3 ± 6.5 ± 2.8	±12.7 ± 8.0 ± 3.4	士I5.I 士 9.5 士 4.0	士17.9 士11.3 士 4.7	±20.7 ±13.0 ± 5.5	±23.6 ±14.7 ± 6.2
April 1	0.0	干 0.2	干 0.4	干 o.5 干 2.6	干 0.7	干 4.7	干 1.3	干 1.5	干 1.7	干 2.0	干 2.4
11 21 Mai 1 11 21	0.0 0.0 0.0 0.0		干 6.1 干 7.4	干 9.2	干 9.7 干 12.7 干 15.6		CONTRACTOR STATE	干30.0	干21.6	干17.2 干25.0 干33.0 干41.2 干49.2	〒19.7 〒28.8 〒38.0 〒47.5 〒57.0
Juni 10 20 30 Juli 10	0,0	∓ 4.7 ∓ 5.1 ∓ 5.3 ∓ 5.2 ∓ 4.9	平 9.8 平10.6 平10.9 平10.7 平10.1	∓16.9 ∓16.6	干22.6 干23.3	干30.2	干37.5 干36.9	干40.5 干44.0 干45.6 干44.9 干41.9	The second second	干56.3 干61.7 干64.0 干62.9 干58.6	〒65.5 〒72.1 〒75.1 〒73.7 〒68.2
20 30 Aug. 9	0,0	干 4.4 干 3.8 干 3.2 干 2.5	于 9.1 于 7.9 干 6.5	干14.0 干12.2 干10.1	干19.4 干16.7 干13.9	干25.0 干21.5	干31.0 干26.6 干22.0	干37.4 干32.1	于44.5 于38.0 于31.2 于24.4	〒52.0       〒44.3       〒36.2       〒28.2       〒20.4	〒60.3 〒51.1 〒41.6 〒32.4 〒23.3
Sept. 8	0,0	于 0.5 ± 0.2	∓ o.9 ± o.5	丁 1.6 士 0.5	士 0.8	干 2.6 ± 1.1	∓ 7.8 ∓ 3.2 ± 1.3	于 3x8 士 1.6	土 1.8	干12.8 干 5.3 ± 2.1	∓14.6 ∓ 6.0 ± 2.4
Okt. 8	0.0	± 0.9 ± 1.6	± 1.8 ± 3.2	± 4.8	士 3.7 士 6.6	± 4.8 ± 8.5	±10.4	土12.5	土 8.2 土 14.7	± 9.5 ±17.0	±10.8 ±19.5
Nov. 7	0.0	± 2.2 ± 2.9 ± 3.6	± 6.0 ± 7.3	± 9.0 ±11.1	士 9.5 士 12.5 士 15.3 士 17.8	±12.3 ±16.0 ±19.6	±15.1 ±19.8 ±24.3 ±28.4	±18.1 ±23.7 ±29.3 ±34.3	±21.3 ±27.9 ±34.5	±24.6 ±32.4 ±40.1	±28.3 ±37.4 ±46.3
Dez. 7	0,0	± 4.1 ± 4.6	± 8.4 ± 9.3	土13.1	±17.8 ±19.8	±22.9 ±25.5	士31.7	±34.3 ±38.2	±40.6 ±45.4	±47.3 ±53.1	±54.7 ±61.5
· 17 27 37	0.0	± 4.8 ± 4.8 ± 4.6	± 9.8 ± 9.8 ± 9.3	The second second second	THE RESERVE OF THE PARTY OF THE	Contract of the Contract of th		±40.5 ±40.5 ±38.4	±48.2 ±48.2 ±45.5	The second secon	±65.5 ±65.7 ±61.7

#### Reduktionstafel

#### für den Auf- und Untergang des Mondes

Das obere Vorzeichen gilt für den Aufgang, das untere Vorzeichen für den Untergang

<i>t</i> *)		448-1		Geo	grap	hisch	e Bre	eite		1203	
	+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
h m	m	m ,	m	m	m	m ·	m	m	m	_ m	m
3 20	干94.6	干87.9	干80.9	干73.4	干65.5	干56.9	干47.6	干37.5	干26.4	干14.0	0.0
3 30	干88.5	干82.2	干75.6	干68.5	干61.0	干52.9	干44.2	干34.8	干24.4	干12.9	0.0
3 40	干82.5 干76.6	干76.5 干71.0	干70.3	干63.7	干56.6	干49.1	<b>∓41.0</b>	干32.2 干29.6	干22.5 干20.7	干11.9	0.0
3 50	十70.8	干65.6	<del>+05.2</del> <del>+60.1</del>	干59.0	干52.4 干48.2	干45.3	干37.8	十29.0	十20.7	十 9.9	0.0
4 0	+70.0	+03.0	700.1	₩ 34.4	740.2	T41./	T 34.7	+2/.2	710.9	7 9.9	0,0
4 10	干65.1	干60.3.	干55.2	干49.9			干31.7		干17.3	平 9.0	0.0
4 20	干59.5	干55.0	干50.3				干28.9	干22.5	干15.7	干 8.2	0.0
4 30	于54.0							干20.4		干 7.4	0.0
4 40	干48.4	干44.8		11 - 11 -	and the second second	the second second second	干23.3			The second secon	0.0
4 5,0	干43.0	干39.8	干36.4	干32.7	干29.0	干24.9	干20.7	于16.1	干11.2	干 5.8	0.0
5 0	干37.7	干34.8	于31.8	于28.6	于25.3	<b>丰21.8</b>	∓18.1	干14.1	于 9.8	<b>∓</b> 5.0	0.0
5 10	于32.4	十29.9	于27.3	于24.6		丁18.7	于15.5	干12.1	干 8.4	Ŧ 4.3	0.0
5 20	干27.1		干22.8	<b>∓20.6</b>	干18.2	干15.6	干12.9	干10.1		丁 3.6	0.0
5 30	干21.9	干20.2	干18.4	干16.6	干14.7	干12.6	干10.4	干 8.1	干 5.6	干 2.9	0.0
5 40	干16.7	干15.4	干14.0	干12.6	干11.2	干 9.6	干 7.9	干 6.2	干 4.3	干 2.2	0,0
5 50	2000 0000000		干 9.7	干 8.7	干 7.7	干 6.6		干 4.2	干 2.9	干 1.5	0.0
6 0	干 6.4	干 5.8	干 5.4	于 4.8		于 3.6		干 2.3	干 1.6	干 0.9	٥.٥
6 10	干 1.2	干 1.1					干 0.6		干 0.3	干 0.2	0.0
6 20		士 3.7	± 3.4				土 1.9		土 1.0	± 0.5	0.0
6 30	士 9.1	士 8.4	土 7.7	± 6.9	± 6,1	士 5.3	士 4.4	士 3.4	土 2.4	土 1.2	0.0
6 40	士14.3	土13.2	±12.0	±10.8	± 9.6	士 8.2	士 6.8	士 5.3	士 3.7	土 1.9	0.0
6 50	士19.5	士18.0	±16.4	士14.8	土13.1	土11.2	士 9.3	土 7.2	土 5.0	± 2.6	0.0
7 0	士24.7	士22.8	士20.9	土18.8	±16.6	士14.2		士 9.1	士 6.3	士 3.3	0.0
7 10	±30.0	土27.7	士25.3	士22.8			土14.3	土11.1	士 7.7	± 4.0	0,0
7 20	士35.3	±32.6	土29.7	±26.8	土23.7	±20.3	±16.8	土13.1	士 9.1	士 4.7	0,0
7 30	±40.6	士37.5	士34.3	士30.9	土27.3	士23.4	士19.4	土15.1	±10.5	士 5.5	0.0
7 40	士45.9	士42.5	士38.9	士35.0	士31.0	±26.6	<b>±22.</b> I	土17.2	士12.0	士 6.2	0,0
7 50	土51.4	士47.6	士43.5	士39.2	士34.7	士29.9	十24.8	土19.3	土13.5	土 7.0	00
8 0	士56.9	±52.7	士48.2	士43.5	士38.5	±33.2	±27.6	土21.5	土15.0	土 7.8	0.0
8 10	土62.5	士57.9	士53.0	士47.9	土42.4	±36.6	士30.4	土23.8	±16.6	土 8.6	0.0
8 20	±68.2	±63.2	士57.9	士52.3	±46.4	±40.1	士33.3	±26.1	±18.2	士 9.5	0.0
8 30	±74.0	士68.5	±62.9	士56.9	±50.5	士43.7	士36.4	±28.5	±19.8	±10.5	0.0
8 40	土79.8	土74.0	±67.9	±61.5	土54.7	士47.3	士39.5	士30.9	±21.6	±11.4	0.0
8 50′	±85.8	士79.6	土73.1		土59.0	士51.1		士33.5	土23.5	±12.5	0.0
9 0	士91.9	±85.3	±78.4	土71.2	士63.4	±55.0	±46.0	士36.3	±25.5	土13.5	.0.0

<sup>\*)</sup> t ist beim Aufgang der Zeitunterschied zwischen Aufgang und Kulmination, beim Untergang der Zeitunterschied zwischen Kulmination und Untergang.

#### für den Auf- und Untergang des Mondes

Das obere Vorzeichen gilt für den Aufgang, das untere Vorzeichen für den Untergang

t*)				G e	ogra	phisc	he B	reite			
	+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
h m	·m	m	m	m	m	m	m	m	m	m	m
3 20	0.0	士7.7 士7.1	土16.1	$\pm 25.2$ $\pm 22.9$	±35.1 ±31.8	±46.1 ±41.6	$\pm 58.4$ $\pm 52.4$	±72.5 ±64.5	士89.1 士78.3	士109.7	士138.1 土114.3
3 30 3 40	0,0	士6.5	$\pm 13.4$	±20,9	土28.9	士37.6	$\pm 47.2$	土57.7	士69.4	士 82.7	士 98.2
3 50	0.0	士5.9	±12.2	土19.0	+26.2	士34.0		十51.7	+61.9	士 73.3	士 86.1
4 0	0.0	士5.4	±11.1	±17.2	士23.7	±30.8		±46.3	±55.2	± 65.0	± 76.0
			Market State		War and		100				
4 10	0.0	士4.9	±10.1	±15.6	±21.4	±27.7	±34.4	±41.6	±49.4	士 57.9	± 67.3
4 20	0.0	±4.5	士 9.1	±14.0	±19.2	±24.8		±37.2		± 51.5	± 59.6
4 30	0.0	士4.0 土3.5	士 8.1	±12.5 ±11.2	土17.2	±22.2 ±19.7	$\pm 27.5$ $\pm 24.3$	±33.1 <b>±</b> 29.3	士39.1 士34.5	士 45.7 士 40.2	$\pm$ 52.7 $\pm$ 46.3
4 50	0.0	士3.1	士 6.4	$\pm 9.8$	士13.4	土17.3	$\pm 21.4$		±30.2	士 35.1	士 40.3
4 30	0.0	1.3.	1 0.4		T-3.4				1.1.0.2	T 33.1	1. 40.4
5 0	0.0	士2.7	士 5.5	土 8.5	±11.6	土15.0	士18.5	±22.2	±26.1	± 30.3	± 34.8
5 10	0.0	±2.3	土 4.7	士 7.2	土10.0	±12.8	The second second second	土18.9	±22.2	土 25.7	士 29.5
5 20	0.0	±2.0	士 3.9	± 6.0	士 8.3	士10.7	土13.1		土18.4		± 24.4
5 30	0.0	±1.6	士 3.2	± 4.8	± 6.7	± 8.5		±12.6	土14.8	土 17.1	± 19.6
5 40	0.0	±1.2	土 2.4	± 3.7	± 5.0	± 6.5	士 7.9	士 9.5	士11.2	± 13.0	± 14.8
5 50	0.0	±0.8	土 1.7	± 2.6	± 3.4	± 4.4	± 5.5	± 6.5	士 7.7	± 8.9	± 10.2
6 o	0.0	±0.5	士 0.9	± 1.4	土 1.9	士 2.4		士 3.6	士 4.2	± 4.9	± 5.6
6 10	0.0	土0.1	士 0.2	士 0.2	± 0.4		± 0.6	The second second	士 0.8	士 0.9	土 1.1
6 20	0.0	干0.3	于 0.6	干 0.9			干 1.9			王 3.0	于 3.5
6 30	0.0	干0.6	干 1.3	干 2.0	干 2.7	干 3.5	干 4.3	干 5.2	干 6.0	干 7.0	于 8.0
6 40	0.0	∓1.0	干 2.1	于 3.1	干 4.3	于 5.5	干 6.8	∓ 8.1	干 9.5	丁 11.0	干 12.6
6 50	0.0	丁1.3	丁 2.9	干 4.3			干 9.4			干 15.1	干 17.3
7 0	0.0	干1.7	干 3.6	干 5.5			干11.9		干16.7	干 19.3	干 22.2
7 10	0,0	干2.1	干 4.4	干 6.7		干11.7				The second second	干 27.1
7 20	0.0	干2.5	干 5.1	干 7.9	干10.8	干13.8	干17.1	干20.6	干24.2	干 28.1	于 32.3
7 30	0.0	干2.9	<b>∓</b> 6.0	于 9.2	干12.6	∓16.1	于19.9	干24.0	干28.2	∓ 32.8	干 37.7
7 40	0,0	丰3.3		<b>∓10.6</b>	干14.4	干18.5	干22.9	干27.5	干32.4		于 43.4
7, 50	0.0	干3.8	干 7.7	干12.0		干21.0			干36.9	干 43.0	干 49.6
8 0	0.0	干4.2	干 8.7	干13.4					干41.7	干 48.7	干 56.3
8 10	0.0	干4.7	干 9.6	于14.9	干20.4	干26.4	<b>千32.6</b>	干39.5	干46.8	干 54.8	干 63.5
8 20	0.0	干5.2	干10.6	干16.4	干22.6	干29.2	<b>=36.3</b>	干44.0	干52.3	干 61.5	干 71.6
8 30	0.0	干5.7	丰11.7	干18.1		干32.4					干 81.0
8 40	0.0	干6.3			干27.6	干35.8	干44.9	干54.9	干65.7	干 77.9	干 92.1
8 50	0,0	. 干6.8	干14.1			干39.7				干 88.5	干106.1
9 0	0.0	干7.4	干15.4	干24.1	十33.7	十44.1	干55.3	干68.4	干83.6	干101.4	干125.9

<sup>\*)</sup> t ist beim Aufgang der Zeitunterschled zwischen Aufgang und Kulmination, beim Untergang der Zeitunterschied zwischen Kulmination und Untergang.

### Hilfstafeln

#### zur Berechnung der optischen Mondlibration

<b>λ</b> −&	Δλ	α	В	<b>λ</b> −Ω	λ−Ω	Δλ	α	В	λ−Ω
0	+0.0+	-0.0269+	-0 0.0+	180	45	+0.6+	-0.0190+	-I 5.3+	225
I	0.0	268	0 1.6	181	46	0.6	187	I 6.4	226
2	0.0	268	0 3.2	182	47	0.6	183	I 7.5	227
3	0.1	268	0 4.8	183	48	0.6	180	1 8.6	228
4	0.1	268	0 6.4	184	49	0.6	176	1 9.7	229
5. 900		2 2260 1		-0-	(SIANE)	1061	0.0780		000
5 6	+0.1+	-0.0268+ 267	-0 8.0+ 0 9.7	185	50 51	+0.6+	-0.0173+ 169	-I 10.7+ I 11.8	230
	0.1	267	0 II.3	187	52	0.6	165	1 12.8	232
7 8	0,2	266	0 12.9	188	53	0.6	162	1 13.8	233
9	0.2	265	0 14.4	189	54	0.6	158	1 14.7	234
1191	ALC: US		TAMES IN CASE	Okrosia.	Witte Ba	7237		100 100 100 100 100	
10	+0.2+	-0.0264+	-0 16.0+	190	55	+0.6+	-0.0154+	-1 15.6+	235
II	0.2	264	0 17.6	191	56	0.6	150	1 16.5	236
12	0.2	263	0 19.2	192	57	0.6	146	I 17.4	237
13	0.3	262	0 20.8	193	58	0.6	142	1 18.3	238
14	0.3	261	0 22.3	194	59	0.5	138	I 19.2	239
15	+0.3+	-0.0259+	-0 23.9+	195	60	+0.5+	-0.0134+	-I 20.0+	240
16	0.3	258	0 25.5	196	61	0.5	130	I 20.8	241
17	0.3	257	0 27.0	197	62	0.5	/ 126	1 21.5	242
18	0.4	255	0 28.5	198	63	0.5	122	I 22.3	243
19	0.4	254	0 30.1	199	` 64	0.5	118	1 23.0	244
20	10.11	-0.0252+	-0 31.6+	200	6-	+0.5+	-0.0114+	-I 23.7+	245
21	+0.4+	-0.0252+ 251	THE RESERVE AND ADDRESS OF THE PARTY OF THE	200	65 66	0.5	100	I 24.4	245
22	0.4		o 33.1 o 34.6	201	67	0.4	105	I 25.0	247
	0.4	249	o 36.1		68	701 117	101	I 25.6	248
23	0.4	247	0 37.6	203	69 .	0.4	096	I 26.2	249
-4	0.5	245	0 37.0	204	09.	0.4		1 20.2	249
25	+0.5+	-0.0243+	-0 39.0+	205.	70	+0.4+	-0.0092+	-I 26.8+	250
26	0.5	241	0 40.5	206	71	0.4	87	I 27.3	251
27	0.5	239	0 41.9	207	72	0.4	83	I 27.8	252
28	0.5	237	0 43.4	208	73	0.3	. 79	1 28.3	253
29	0.5	235	0 44.8	209	74	0.3	74	1 28.8	254
30	+0.5+	-0.0233+	-0 46.2+	210	75	+0.3+	-0.0070+	-I 29.2+	255
31	0.5	230	0 47.6	211	76	0.3	65	I 29.6	256
3.2	0,6	228	0 48.9	212	77	0.3	60	I 30.0	257
33	0.6	225 -	0 50.3	213	78	0.2	56	1 30.3	258
34 •	0,6	223	0 51.6	214	79	0.2	51	1 30.6	259
	24 13 (3)				77.00	25.00			. 10 8313
35	+0.6+	-0.0220+	-0 53.0+	215	80	+0.2+	-0.0047+	-I 30.9+	260
36	0,6	217	0 54.3	216	8r	0.2	42	I 31.2	261
37	0.6	214	0 55.6	217	82	0.2	37	I 31.4	262
38	0.6	212	0 56.9	218	83	0.1	33	1 31.6	263
39	0,6	209	o 58.1	219	84	O.I	28	1 31.8	264
40	+0.6+	-0.0206+	-0 59.4+	220	85	+0.1+	-0.0023+	-I 32.0+	265
41	0.6	203	I 0.6	221	86	0.1	19	1 32.1	266
42	0.6	200	1 1.8	222	87	0.1	14	I 32.2	267
43	0.6	196	I 3.0	223	88	0.0	09	I 32.3	268
44	0.6	193	I 4.I	224	89	0.0	05	I 32.3	269
45	+0.6+	-0.0190+	-r 5.3+	225	192 97	+0.0+	-0.0000+	-I 32.3+	270
		Z	$' = \lambda + \Delta \lambda$ —	a (B —	β) — L	(; b'	$= B - \beta$		

 $l',\,b'=$  Optische Libration der Mondmitte in selenographischer Länge und Breite.

 $\lambda, \beta$  = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort.

 $L_{0} = Mittlere Länge des Mondes, <math>0 = Mondknoten$ .

zur Berechnung der optischen Mondlibration

λ−&	Δλ	σ.	В	<b>y−</b> 8	λ−&	Δλ	α	В	λ− <b>®</b>
0				0					
90	-0.0	+0.0000 -	-I 32.3+	270	135	-0.6 -	+0.0190-	-I 5.3+	315
91	0.0	05	I 32.3	271	136	0.6	193	i 4.1	316
92	0.0	09	I 32.3	272	137	0.6	196	I 3.0	317
93	o.I	14	I 32.42	273	138	0.6	200	1 1.8	318
94	0.1	19	1 32.1	274	139	0.6	203	1 0,6	319
95	-0.1 -	+0.0023 -	-1 32.0+	275	140	-0.6 -	+0.0206 -	-0 59.4+	320
96	0.1	28.	1 31.8	276	141	0.6	209	0 58.1	321
97	0.1	33	1 31.6	277	142	0.6	212	0 56.9	322
98	0.2	37	1 31.4	278	143	0.6	214	0 55.6	323
99	0.2	42	1 31.2	279	144	0.6	217	0 54.3	324
100	-0.2 -	+0.0047 -	-I 30.9+	280	145	-0.6-	+0.0220 -	-0 53.0+	325
101	0.2	51	I 30.6	281	145	0,6	223	0 51.6	326
102	0.2	56	1 30.3	282	147	0.6	225	0 50.3	327
103	0.3	60	1 30.0	283	148	0.6	228	0 48.9	328
104	0.3	65	1 29.6	284	149	0.5	230	0 47.6	329
ALIGN .	41 08	THE REAL PROPERTY.		100	21257	16324			1 25
105	-0.3 -	+0.0070 -	-I 29.2+	285	150	-0.5 -	+0.0233-	-0 46.2+	330
106	0.3	74	1 28.8	286	151	0.5	235	0 44.8	331
107	0.3	79	1 28.3	287	152	0.5	237	0 43.4	332
108	0.4	83	1 27.8	288	153	0.5	239	0 41.9	333
109.	0.4	87	I 27.3	209	154	0.5	241	0 40.5	334
110	-0.4-	+0.0092 -	-I 26.8+	290	155	-0.5 -	+0.0243-	-0 39.0+	335
III	0.4	096	1 26.2	291	156	0.5	245	0 37.6	336
112	0.4	101	1 25.6	292	157	0.4	247	0 36.1	337
113	0.4	105	I 25.0	293	158	0.4	249	0 34.6	338
114	0.5	109	I 24-4	294	159	0.4	251	0 33.1	339
115	-0.5 -	+0.0114 -	-I 23.7+	295	160	-0.4 -	+0.0252-	-0 31.6+	340
116	0.5	118	I 23.0	296	161	0.4	254	0 30.1	341
117	0.5	122	1 22.3	297	162	0.4	255	0 28.5	342
118	0.5	126	1 21.5	298	163	0.3	257	0 27.0	343
119	0.5	130	1 20.8	299	164	0.3	258	0 25.5	344
120	-0.5 -	+0.0134-	-I 20.0+	300	165	-0.3 -	+0.0259 -	-0 23.9+	345
IZI	0.5	138	1 19.2	301	166	0.3	261	0 22.3	346
122	0.6	142	1 18.3	302	167	0.3	262	0 20.8	347
123	0.6	146	I 17.4	303	168	0.2	263	0 19.2	348
124	0.6	150	1 16.5	304	169	0.2	264	0 17.6	349
125	-0.6 -	+0.0154-	-I I5.6+	305	170	-0.2 -	+0.0264 -	-0 16.0+	350
126	0.6	158	1 14.7	306	171	0.2	265	0 14.4	351
127	0.6	162	1 13.8	307	172	0.2	266	0 12.9	352
128	0.6	165	1 12.8	308	173	0.1	267	0 11.3	353
129	0.6	169	1 11.8	309	174	0.1	267	0 9.7	354
130	-0.6 -	+0.0173-	-I IO.7+	310	175	-0.1	+0.0268 -	-0 8.0+	355
131	0.6	176	I 9.7	311	176.	0.1	268	0 6.4	356
132	0.6	180	I 8.6	312	177	0.1	268	0 4.8	357
133	0.6	183	I 7.5	313	178	0.0	268	0 3.2	358
134	0.6	187	I 6.4	314	179	0.0	268	0 1.6	359
135	<b>-0.6</b> -	+0.0190 -	<b>−</b> 1 5.3+	315	180	-0.0 -	+0.0269 -	-0 0.0+	360
		$l'=\lambda$	$+\Delta\lambda-a$ (H	$(\beta - \beta)$	$-L_{(\!(\!\cdot\!)\!)}$ ;	b' = B	$-\beta$		

 $l^\prime$ ,  $b^\prime = \mathrm{Optische}$  Libration der Mondmitte in selenographischer Länge und Breite.

 $\lambda,\ \beta=\text{L\"{a}nge}$  und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort.

 $L_{\mathbb{Q}}$  = Mittlere Länge des Mondes,  $\mathbb{Q}$  = Mondknoten.

See-

Länge von Greenwich

Korr. der

Log. ρ incl.

Name	See- höhe	Geogr. Breite	Greenwich  + westlich  - östlich	Korr. der Sternzeit	Geoz. Breite	incl. Seehöhe				
	m	a / #	h m s	s	0 1 11	Marine S.				
Abastumani (Mt.Kanobili)	17.00	+41 43	- 25I	— 28.I	+41 32	9.999471				
Abbadia	69	+43 22 52.2		+ 1.15	+43 11 17.8	9.999317				
Åbo	01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	+60 26 56.8		- 14.64	+60 16 58.8	9.998894				
Adelaide	41		- 9 14 19.90	- 91.06	-34 44 42.7	9.999526				
Albany (Neue Sternw.)1)	40,	+42 39 12.8		+ 48.48	+42 27 39.7	9.999334				
Algier (Neue Sternw.)2)	345		- 0 12 8.47	- 1.99	+36 36 58.1	9.999497				
	11574			113 12111	-1-1					
Allegheny (Neue Sternw.). Allegheny (Alte Sternw.).	370	+40 28 58.1 +40 27 41.6		+ 52.59	+40 17 31.4	9.999411				
Amherst (Neue Sternw.)	349	+40 27 41.0		+ 52.58	+40 10 15.0	9.999411				
Ann Arbor	282	+42 21 50.5	+ 4 50 5.98 + 5 34 55.27	+ 47.66 + 55.02	+42 5 16.4	9.999346				
Arcetri Zentr. d. Sternw.3).	184	+43 45 14.4			+43 33 39.5	9.999316				
Arequipa4)	2451		+ 446 11.73	- 7.39 + 47.02	-16 16 12.7	0.000052				
	Charle II			1 47.02	And a series	17 3 17 2 2 2				
Armagh	64		+ 0 26 35.48	+ 4.37	+54 10 11.4	9.999041				
Athen	110	+37 58 15.5		<b>— 15.58</b>	+37 47 1.2	9.999456				
Bamberg (Remeis-Sternw.)	288	The state of the s	- 0 43 33.57	<del>-</del> 7.15	+49 41 40.3	9.999167				
Barcelona 5)	415	+41 24 59.3	Control of the Contro	- 1.41	+41 13 29.4	9.999391				
Bayreuth (Haus d.Erzieh.)	354	+49 56 46	- 046 18.4	<b>–</b> 7.61	+49 45 20	9.999170				
Belgrad	250	+44 48 8	- 1 22 3.8	<b>—</b> 13.48	+44 36 32	9.999294				
Bergedorf MerKr	41	+53 28 46.9	- 040 57.74	- 6.73	+53 17 40.8	9.999060				
Berkeley	94	+37 52 23.5	+ 8 9 2.91	+ 80.34	+37 41 9.8	9.999458				
Berlin-Babelsberg <sup>6</sup> )	82	+52 24 24.2	- 0 52 25.49	- 8.61	+52 13 11.1	9.999089				
Berlin (Urania)7)	47		- 0 53 27.40	- 8.78	+52 20 18.3	9.999084				
Bern (Astronom. Institut) .	563	+46 57 12.7	- 0 29 42.88	- 4.88	+46 45 38.5	9.999260				
Besançon	312	+47 14 59.0	- 0 2 3 5 7 . 1	- 3.93	+47 3 25.3	9.999236				
Blaca	280	+43 17 37	- I 6 8.0	<b>— 10.86</b>	+43 6 3	9.999334				
Bloemfontein Filiale Obs. Univ. Michig.	1490	-29 5 45	- 1 44 57	<b>—</b> 17.24	-28 55 55	9.999758				
Bloemfontein Boyden Stat.	1379	-29 12	- 1 45 57	- 17.40	-29 2	9.999748				
Bogota	2640	the second secon	+ 456 19.51	+ 48.68	+ 4 34 . 4.4	0.000111				
Bologna Zentr. d. Sternw	84		- 045 24.48	- 7.46	+44 18 17.3	9.999290				
Bombay (Colaba)	19	The same of the sa	- 451 15.60	- 47.85	+18 46 31.1	9.999849				
	10000			11.500000000000000000000000000000000000	530 pt - Stimmer	54.50 (C. 12 (8.0))				
Bonn Zentr. d. Sternw	62		- 0 28 23.18	- 4.66	+50 32 22.7	9.999130				
Bordeaux (Floirac)	73	DOMESTIC STREET	+ 0 2 6.56	+ 0.35 + 42.41	+44 38 31.6	9.999281				
Bosque Alegre (Filiale v. Cordoba, Reflektor)	1250	<b>—31 35 53</b>	+ 41811.2	+ 42.41	<b>—31 25 33</b>	9.999686				
Boston (University)8)	31	+42 20 58	+ 444 19.1	+ 46.71	+42 9 25.6	9.999341				
Breslau Zentr. d. Sternw	147	+51 6 56.5	- I 8 8.72	- 11.19	+50 55 36.1	9.999126				
Breslau Neue Sternw.9)	117	+51 6 42.1	- I 8 21.22	- 11.23	+50 55 21.7	9.999130				
Brisbane	5.7	-27 28 23 0	-10 12 6.48	-100 55	-27 18 54.6	0.000604				
Brüssel (Alte Sternw.) Pass - Instr.	16	+ fo ft 10.7	017.28.77	2 87	±50 30 40 0	0.000126				
Brüssel (Uccle) MerKr	105	+50 51 10.7	- 0 17 28.71 - 0 17 26.05	2.07	+50 36 32 7	9.999120				
Budapest UnivSternw.	110	+47 20 24 7	- 1 16 15 4	_ T2 52	+47 18 1	0.000215				
Budapest-Svábhegy	470	+47 20 58 6	- 1 16 15.4 - 1 15 51.47	- 12.46	+47 18 25 4	0.000240				
OF THE PROPERTY OF THE PROPERT										
1) Dudley Observatory, seit Juni 1893. Alte Sternwarte 37.0 nördlich, 7.10 östlich. — 2) Alte Sternwarte 3.8 südlich, 82 östlich. — 3) Seit Oktober 1872, früher in Florenz. — 4) 1927 geschlossen und nach Bloemfontein										
verlegt. — 5) J. Comas Solá.										
der große Refraktor aufgestell	t ist. Di	e frühere Sternv	varte in Berlin (se	eit 1835) lag	5' 52".5 nördlich	und 1 <sup>m</sup> 9.31				
östlich. — ') Übungssternwar ') Geogr. Breite des Vertikalk					i östlich, 34"5 r	iördlich. —				
) deogr. Breite des verlikais	reises,	Lange des Durc	ngangsinstrumer	113.	B. S. W. Charles	Charles and the same				

1koordinaten der Sternwarten										
Name	See- höhe	Geogr. Breite	Länge von Greenwich + westlich - östlich	Korr. der Sternzeit	Geoz. Breite	Log, p incl. Seehöhe				
	m	• 0 1 11	h m s	s	0 / /					
Budapest <sup>1</sup> )	110	+47 28 49	-I 16 I 3.7	-12.53	+47 17 16	9.999215				
Bukarest (Mil. Geogr. Inst.)	85	+44 24 34.2	—I 44 27.0I	-17.16	+44 12 58.7	9.999292				
Cambridge Engl	28	+52 12 51.6	-o o 22.75	- 0.06	+52 1 37.3	9.999090				
Cambridge Mass.2)	24	+42 22 47.6	+4 44 31.05	+46.74	+42 11 15.1	9.999340				
Cap d. Guten Hoffnung	10	-33 56 6.8	—I I3 54.60	-12.14	-33 45 23.2	9.999547				
Caracas (Observ. Cajigal) .	1042	+10 30 24.3	+4 27 42.61	+43.98	+10 26 15.6	0.000023				
0 1 1 0 1 10	111-4			95 ESS 450 I						
Castel Gandolfo	NEW POR	+41 44 48	-0 50 36.4	- 8.31	+41 33 17	9.999354				
Catania	47	+37 30 13.3	-I 0 20.60	- 9.91	+37 19 1.9	9.999466				
Charkow	139	+50 0 9.9	-2 24 55.72	-23.81	+49 48 44.4	9.999153				
Charlottenburg Hochsch.	60	+52 30 48.7	-o 53 20.5	- 8.76	+52 19 36.2	9.999085				
Charlottesville <sup>3</sup> )	259	+38 2 1.2	+5 14 5.33	+51.60	+37 50 46.5	9.999464				
Christiania (Oslo) MerKr.	25	+59 54 43.7	-0 42 53.51	- 7.04	+59 44 39.2	9.998908				
Cincinnati (114- 94					The state of the state of					
Cincinnati (Alte Sternw.)		+39 6 26.5	+5 37 59.09	+55.52	+38 55 6.0	9.999421				
Cincinnati (Neue Sternw.)4)	247	+39 8 19.8	+5 37 41.40	+55.47	+38 56 59.1	9.999437				
Cleveland (Case Obs.)	215	+41 30 14.5	+5 26 25.86	+53.63	+41 18 44.3	9.999375				
Coimbra	99	+40 12 24.5	+0 33 43.1	+ 5.54	+40 0 58.9	9.999400				
Columbia Missouri <sup>5</sup> )	225	+38 56 12	+6 9 18.37	+60.67	+38 44 52.3	9.999442				
Cordoba	434	<b>—31 25 15.5</b>	+4 16 47.16	+42.18	-31 14 57.5	9.999635				
Danzig (Naturf. Ges.)	30	+54 21 18.0	—I 14 39.6	-12.26	+54 10 18.4	9.999036				
Danzig (Stadt. Sternw.)	30	+54 21 37.9		-12.26	+54 10 38.3	9.999036				
Delaware (Perkins Obs.) .	270	+40 15 4	+5 32 13.33	+54.58	+40 3 38	9.999410				
Denver®)	1644	+39 40 36.4		+68.96	+39 29 13.1	9.999519				
Dorpat (Tartu, Jurjew) MerKr.	67	+58 22 47.2	The state of the s	-17.56	+58 12 25.1	9.998946				
Dresden (Geodat. Inst.)	168	+51 1 49.3	-0 54 55.I	- 9.02	+50 50 28.5	9.999130				
	100	1 31 1 49.3	-0 34 33.1	9.02	Other State of Co.	9.999130				
Dresden (Mathem. Salon)	_	+51 3 14.7	-0 54 55.83	<b>-</b> 9.02	+50 51 54.0	9.999117				
Dublin (Dunsink Obs.)	86	+53 23 13.1	+0 25 21.1	+ 4.17	+53 12 6.4	9.999065				
Düsseldorf (Bilk)	46	+51 12 25.0	-0 27 2.69	- 4.44	+51 1 5.1	9.999117				
Dunlap Obs. (Toronto)	244	+43 51 46	+5 17 41.3	+52.19	+43 40 11	9.999317				
Durban	79	-29 50 46.6	-2 4 1.18	-20.37	-29 40 47.0	9.999645				
Durham	108	+54 46 6.2	+0 6 19.75	+ 1.04	+54 35 9.8	9.999033				
Edinburgh	146	L = = = = = = = = = = = = = = = = = = =	1010117	+ 2.09	1. 5 5 44 42 5	0.000000				
	The second second	+55 55 30	+0 12 44.1	ALCOHOLD TO THE REAL PROPERTY.	+55 44 43.5	9.999008				
Edinburgh (Blackf. Hill).	The second second	+55 55 28.0	+0 12 44.0	+ 2.09	+55 44 41.5	9.999007				
Evanston (Dearborn Obs.) 7)	175	+42 3 27.2	+5 50 41.8	+57.61	+41 51 55.4	9.999358				
Faenza (Urania Lamonia).	The second second	+44 17 2	-0 47 33.9	- 7.81	+44 5 27					
Flagstaff (Lowell Obs.)	2210	+35 12 30.5		+73.39	+35 1 35.8	The second second				
Florenz (Alte Sternw.)8)	73	+43 46 4.1	-0 44 59.6	<i>− 7.39</i>	+43 34 29.2	9.999308				
Florenz (Mil. Geogr. Inst.).	72	+43 46 49.4	-0 45 2.5	<b>-</b> 7.40	+43 35 14.5	9.999308				
Frankfurt a. M	- 14 CONTRACTOR	+50 7 0	-0 34 36.3	<b>—</b> 5.70	+49 55 34.6					
Genf MerKr		+46 11 59.3		- 4.04	+46 0 24.1	The state of the s				
Genua (MarSternw.) MerKr.	A. C. C. C. C.	+44 25 8.1				The second second				
Georgetown D. C		+38 54 26.2			+44 13 32.6					
Glasgow Schottl				+50.65 +2.82	+38 43 6.7	the second section in the second				
	1		+0 17 10.55		+55 41 55.2					
1) Observ. der Kgl. Jose McCormick Observatory Univ										

McCormick Observatory, University of Virginia. — 4) Mount Lookout seit 1873. — 5) Laws Observatory. — 6) University Park, Chamberlin Observatory. — 7) Früher 6.2 nördl., 0.5 westl. — 8) 1872 nach Arcetri verlegt.

## Koordinaten der Sternwarten

Name	See- höhe	Geogr. Breite	Länge von Greenwich + westlich - östlich	Korr. der Sternzeit	Geoz. Breite	Log. p incl. Seehöhe	
	m		h m s	s	0 , 4	Marie State Car	
Göttingen MerKr	161	+51 31 48.2	-0 39 46.22	-6.53	+51 20 30.0	9.999117	
Gotha (Neue Sternw.) 1)	322	+50 56 37.9	-0 42 50.51	- 7.04	+50 45 16.7	9.999142	
Graz	375	+47 4 37.2	-I I 47.7I	-10.15	+46 53 3.2	9.999244	
Greenwich Transit Circle .	47	+51 28 38.2	0 0 0,00	0.00	+51 17 19.7	9.999110	
Groningen	4	+53 13 13.8	-0 26 15.11	- 4:31	+53 2 6.0	9.999064	
Grünwald²)	599	+48 2 7	-0 46 6.55	- 7.58	+47 50 35	9.999235	
TT 1 (Alte Sternw.)	11						
Hamburg (Alte Sternw.) 3).	25	+53 33 6.0	-o 39 53.60	-6.55	+53 22 0.4	9.999057	
Hamburg (D. Seewarte)	30	+53 32 51.8	-o 39 53.42	- 6.55	+53 21 46.2	9.999058	
Hannover N. H	183	+43 42 15.3	+4 49 8.00	+47.50	+43 30 40.5		
Haverford	1,19	+40 0 40.1	+5 1 12.7	+49.48	+39 49 15.4	THE RESERVE AND ADDRESS OF THE PARTY OF THE	
Heidelberg (Wolfs Sternw.)	126	+49 24 35	-o 34 48.4	- 5.72	+49 13 7	9.999159	
Heidelberg (Königst.)	570	+49 23 54.6	-0 34 53.13	<b>— 5.73</b>	+49 12 26.8	9.999198	
Helsingfors MerKr	33	+60 9 42.3	-1 39 49.10	-16.40	+59 59 40.8	9.998903	
Helwan	115	+29 51 31.1	-2 5 21.77	-20.59	+29 41 31.4	9.999648	
Herrsching (München) .	534	+47 59 55	-0 44 43.6	<i>− 7.</i> 35	+47 48 23	9.999231	
Hongkong	33	+22 18 13.2	-7 36 41.25	-75.02	+22 10 5.8	9.999793	
Hyderabad-Deccan4)	554	+17 25 54.3	-5 13 48.98	-51.55	+17 19 17.7	9.999907	
Innsbruck	605	+47 16 6.5	-0 45 31.42	<b>-</b> 7.48	+47 4 32.8	9.999254	
Istanbul (Univ. Sternw.) .	65	+41 045	—I 55 52	-19.03	+40 49 16	9.999377	
Jena (Univers.) Zentr. d. St.	164	+50 55 35.6	-0 46 20.22	- 7.61	+50 44 14.3	9.999377	
Jena (Winkler)	174	+50 56 15.7	-0 46 20.73	- 7.61	+50 44 54.5	9.999132	
Johannesburg	1786	-26 10 52.1	-I 52 17.9	-18.45	-26 I 42.0	9,999839	
Johannesburg (Fil. d. Yale Observ.)	98 9949	THE RESERVE OF THE PARTY OF THE	The second of the second of			THE RESERVE TO SHARE THE PARTY OF THE PARTY	
Kairo	1741	-26 II I4	-I 52 7	-18.42	<del>-26 2 4</del>	9.999836	
		+30 4 38.2	<b>—2</b> 5 8.80	-20.56	+29 54 35.8	9.999635	
Kalocsa <sup>5</sup> )	102	+46 31 42.4	-I I5 54.34	-12.47	+46 20 7.6	9.999239	
Karlsruhe <sup>6</sup> )	110	+49 0 29.6	-0 33 35.40	- 5.52	+48 49 0.4	9.999177	
Kasan (Univers.)	79	+55 47 24.3	-3 16 29.03	-32.28	+55 36 36.6	9.999007	
Kasan (Engelhardt)	98	+55 50 20.5	-3 15 15.74	-32.08	+55 39 33.2	9.999007	
Kew	10	+51 28 6	+o 1 15.1	+ 0.21	+51 16 47.5	9.999108	
Kiel Neuer MerKr	52	+54 20 27.6	-0 40 35.45	- 6.67	+54 9 27.9	9.999040	
Kiel Alter MerKr	47	+54 20 28.5	-0 40 35.57	- 6.67	+54 9 28.8	9.999040	
Kiew MerKr	184	+50 27 11.8	-2 2 0.56	-20.04	+50 15 48.3	9.999145	
Kitab		+39 8 1.7		SALES OF THE PARTY	+38 56 41.0		
Kodaikanal	2343	+10 13 50	Charles and the state of the st		+10 9 47.6	0.000114	
Königsberg Reps. 7)	22	CTATES E. S. C. S. C. C. C. C. C. C. C. C. C. C. C. C. C.	-I 2I 58.98	-13.47	+54 31 53.8		
Konstanz <sup>8</sup> )	PROPERTY AND ADDRESS OF		-0 36 42.01	- 6.03	+47 28 10.7	CONTRACTOR OF THE PARTY OF THE	
Kopenhagen sternw.) 9)	14	+55 41 12.6	-0 50 18.69	- 8.26	+55 30 24.0	9.999005	
Kopenhagen (Urania-	10	+55 41 19.2	-0 50 9.11	- 8.24	+55 30 30.6	9.999005	
Krakau MerKr	221	+50 3 51.9	-I 19 50.28		+49 52 26.7		
Kremsmünster MerKr			-0 56 31.58		+47 51 51.1		
1) Seit 1857, früher Seebe	erg. — 2	) Privatsternwa	rte von Ph. Faut	h. — 3) 1909	nach Bergedor	f verlegt. —	

<sup>1)</sup> Seit 1857, früher Seeberg. — 2) Privatsternwarte von Ph. Fauth. — 3) 1909 nach Bergedorf verlegt. — 4) Nizamiah Observatory. — 5) Erzbischoff. Haynaldsche Sternwarte. — 6) 1896 nach Heidelberg verlegt. — 7) Nach 1898, vor 1898 0. 01 westlich. — 6) Privatsternwarte von E. Leiner. — 6) Seit 1861 Nov. 11. Alte Sternwarte 20"3 südlich, 0. 03 westlich.

Name	See- höhe	Geogr. Breite	Länge von Greenwich + westlich - östlich	Korr. der Sternzeit	Geoz. Breite	Log. p incl. Seehöhe
	m	0, ,	h m s	S	0 / #	Mark States
Kyoto (Astron. Inst.)	55	+35 1 37.1	-9· 3 7.0	-89.22	+34 50 43.9	9.999525
Kyoto (Kwasan Observ.) .	220	+34 59 40.3	<b>-9</b> 3 10.24	-89.23	+34 48 47.4	9.999537
Ladd Observ. (Providence)	69	+41 50 15.6	+4 45\35.95	+46.92	+41 38 44.4	9.999357
La Plata MerKr. Gautier	17	-34 54 30.3	+3 51 43.74	+38.07	-34 43 38.1	9.999525
Leiden (Neue Sternw.) 1)	6	+52 9 19.8	-0 17 56.15	- 2.94	+51 58 5.2	9.999090
Leiden (Neue Sternw.) 1) Leipzig (Neue Sternw.) 2)	119	+51 20 5.9	-0 49 33.93	- 8.14	+51 8 46.7	9.999119
Lembang (Bosscha St.)	1300	- 6 49 29.1	<b>-7 10 27.81</b>	-70.71	- 6 46 45.5	0,000068
Lemberg (Univ - Sternwarte)	330	+49 49 57.6	-I 36 7.I3	-15.79	+49 38 31.4	9.999171
Lemberg (Techn. Hochsch.)	340	+49 50 11.2	—ı 36 3.40	-15.78	+49 38 45.0	9.999171
T (Petersburg)	20	+59 56 29.7	-2 I I3.35	-19.91	+59 46 25.5	9.998907
Leningrad (Akad.)  Leningrad (Petersburg) (Univers.)	CONTRACT.				THE RESERVE THE PARTY OF THE PA	THAT WE SEE
Lissabon (Tapada)	4	+59 56 32.0	-2 I II.3	-19.91	+59 46 27.8	9.998906
Lissabon (Tapada)	94	+38 42 30.5	+0 36 44.68	+ 6.04	+38 31 12.0	9.999437
Lissabon (Mar. Sternw.)		+38 42 17.6	+0 36 33.6	+ 6.01	+38 30 59.2	9.999431
Liverpool (Neue Sternw.)3)	62	+53 24 4.8	+0 12 17.33	+ 2.02	+53 12 58.2	9.999063
London (Obs. of Univ.)	82	+51 36 46.3	+0 0 57.77	+ 0.16	+51 25 28.6	9.999109
Lourenço Marques	60	-25 58 5.5	-2 10 22.63	-21.42	-25 48 58.9	9.999725
Lübeck (NavigSch.)	19	+53 51 31.1	-0 42 45.6	- 7.02	+53 40 27.8	9.999049
Lund Zentr. d. Sternw	34	+55 41 51.6	-0 52 44.97	<b>— 8.66</b>	+55 31 3.1	9.999006
Lüttich Ougrée	128	+50 37 6	-O 22 I2	<b>—</b> 3.65	+50 25 43	9.999137
Lyon	299	+45 41 40.8	-o 19 8.5	- 3.14	+45 30 5.3	9.999274
Madison (Washburn Obs.).	292	+43 4 36.8	+5 57 37.90	+58.75	+42 53 2.9	9.999340
Madras	7	+13 4 8.0	-5 20 59.65	-52.73	+12 59 2.5	9.999926
Madrid Zentr. d. Sternw	656	+40 24 30.1	+0 14 45.09	+ 2.43	+40 13 3.7	9.999433
Mailand, Brera	120	+45 27 59.2	-0 36 45.89	- 6.04	+45 16 23.6	9.999268
Manila	3	+14 35 25	<b>-8</b> 3 50	<b>-79.48</b>	+14 29 47	9.999908
Mannheim Zentr.d.Sternw.	98	+49 29 11.0	-o 33 50.42	- 5.56	+49 17 43.5	9.999164
Marburg	248	+50 48 46.9	-o 35 4.9	<b>-</b> 5.76	+50 37 25.0	9.999141
Mare Island Calif	18	+38 5 55.8	+8 9 5.63	+80.35	+37 54 40.8	9.999447
Markree (Col'. Cooper)	45	+54 10 31.7	+0 33 48.4	+ 5.56	+53 59 30.7	9.999043
Marseille (Neue Sternw.) 4)	75	+43 18 19.1	—o 21 34.56	- 3.54	+43 6 44.8	9.999320
McDonald Observatory. (Fort Davis)	2070	+30 40 13	+6 56 6.3	+68.36	+30 30 4	9.999763
McMath-Hulbert Obs	296	+42 39 47.7	+5 33 3.3	+54.71	+42 28 14.5	9.999351
Melbourne	28	-37 49 53.4	-9 39 54.17	-95.26	-37 38 39.9	9.999454
Merate (Filiale von Mailand, Brera)	380	+45 41 54.1	-0 37 42.85	- 6.20	+45 30 18.6	9.999279
Meudon		+48 48 18			+48 36 48	9.999185
Middletown, Conn		+41 33 18	CONTRACTOR AND ADDRESS OF THE PARTY.		+41 21 47.6	The second secon
Mizusawa	61	+39 8 3.4	-9 24 31.46		+38 56 42.7	
Modena			-0 43 42.8		+44 27 17.2	9.999285
Montreal	57	+45 30 20	+4 54 18.63		+45 18 44.4	
Mt. Hamilton (Lick Obs.) .	1283	+37 20 25.3	+8 6 34.86	+79.94	+37 9 14.9	9.999552
1) Sait 1960 Alta Stampur	WO 7553 00	AND THE RESIDENCE OF THE PARTY	THE RESERVE OF THE PARTY OF THE	LUA DA STELLOSIS		12 nändlich

¹) Seit 1860. Alte Sternwarte 8.0 nördlich, 0.42 östlich. — ²) Seit 1861. Alte Sternwarte 14.2 nördlich, 4.50 westlich. — ²) Alte Sternwarte 44.0 nördlich, 17.1 östlich. — ²) Seit 1866. Alte Sternwarte 30.1 südlich, 6.52 westlich; Seehöhe 29 m.

### Koordinaten der Sternwarten

Name and Address of the Owner, where the Paris of the Owner, where the Paris of the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, which the Owner,	SC V Call				A STATE OF THE PARTY OF THE PAR	- TO 10 10 10 10 10 10 10 10 10 10 10 10 10
Name	See- höhe	Geogr. Breite	Länge von Greenwich + westlich - östlich	Korr. der Sternzeit	Geoz. Breite	Log. p incl. Seehöhe
	m		h m s	S	0 1	
Mt: Wilson, Calif	1742	+34 12 59.5	+7 52 14.33	+77.57	+34 2 13.3	9.999659
Moskau MerKr	142	+55 45 19.5	-2 30 17.03	-24.69	+55 34 31.5	9.999012
Mundenheim¹)	_	+49 27 30	-o 33 44	- 5.54	+49 16 2	9.999158
München (West-Kuppel)	529	+48 8 45.5	-0 46 26.02	<b>—</b> 7.63	+47 57 13.8	9.999227
Münster	75	+51 57 45.8		- 5.01	+51 46 30.0	9.999100
Nashville (Vanderbilt Obs.)	174	+36 8 58.2	+5 47 12.81	+57:04	+35 57 56.1	9.999506
		. 3 3	13 47 =====	7 37.04	7 33 37 3012	9.99950
Neapel (Capo di Monte)	154	+40 51 45.7	-0 57 I.40	- 9.37	+40 40 17.6	9.999387
Neuchâtel Refraktor	488	+46 59 49.5	-0 27 49.77	- 4.57	+46 48 15.4	9.999254
New Haven (Neue Stw.)2)	40	+41 19 22.3	+4 51 40.58	+47.92	+41 7 52.7	9.999368
New York (Rutherfurd)	-	+40 43 48.5	+4 55 56.66	+48.62	+40 32 20.9	9.999380
New York (Columb. Obs.).			+4 55 53.73	+48.61	+40 33 55.4	9.999379
Nikolajew MerKr	55		-2 7 53.98	-21.01	+46 46 45.1	9.999225
	9.00	100000000000000000000000000000000000000	Service Control of			
Nizza Kl. MerKr.3)	378		-0 29 12.15	- 4.79	+43 31 42.0	9.999330
Northfield (Goodsell Obs.)	290		+6 12 35.84	+61.21	+44 16 5.9	9.999305
Oakland Californ.4)	99	十37 47	+8 8 48	+80.30	+37 35 47	9.999460
Oak Ridge (Filiale d. Harvard Obs.)	183	+42 30 13	+4 46 14.2	+47.02	+42 18 40	9.999347
Odessa(UnivStw.)MerKr.	55	+46 28 36.2	-2 3 2.05	-20.21	+46 17 1.3	9.999237
Odessa (Filiale Pulkowa)	9:20	+46 28 36.0	-2 3 2.19	-20.21	+46 17 1.1	9.999234
0.1						
Oslo (Christiania) MerKr	25		-0 42 53.51	- 7.04	+59 44 39.2	9.998908
Ottawa MerKr	85	+45 23 39.1	A STATE OF DESIGNATION	+49.75	+45 12 3.5	9.999267
Oxford (Radel. Obs.)	65	+51 45 33.9		+ 0.83	+51 34 17.0	9.999104
Oxford (Univers.)	64	+51 45 34.2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	+ 0.82	+51 34 17.3	9.999104
Oxford, Mississippi	140	+34 22 12.6	A RESIDENCE OF THE PARTY OF THE	+58.83	+34 11 25.1	9.999546
Padua	38	+45 24 1.9	-0 47 29.15	<b>-</b> 7.80	+45 12 26.3	9.999261
Palermo	72	1-28 6 110	-o 53 25.87	+ 8.78	+37 55 28.9	9.999451
Paris (Obs.nat.) Mer.Cassini	59		-0 9 20.93	- 1.53	+48 38 41.5	
Paris (Montsouris)westl.Mer.		The second secon		- 1.53 - 1.53	+48 37 48.2	9.999177
Control of the State of the Sta		+48 49 18.0	the same of the sa	The second secon		40,000,000,000,000
	-	The second secon	-7 45 52.87	<del>-76.53</del>	+39 42 58.7	9.999401
Perkins Obs. (Delaware) .	270	+40 15 4	+5 32 13.33	+54.58	+40 3 38	9.999410
Perth, West-Austr	60	-31 57 10.7	<b>-7 43 21.62</b>	<b>-76.12</b>	-31 46 46.9	9-999597
Petersburg (Leningrad)	20	+59 56 29.7	-2 I I 3.35	-19.91	+59 46 25.5	9.998907
Petersburg (Leningrad)	4	+59 56 32.0	-2 1 11.3	-19.91	+59 46 27.8	9.998906
Philadelphia b)		+39 58 2.1		+49.47	+39 46 37.5	9.999404
Pic du Midi (Filiale v. Toulouse)			-0 0 34.29	- 0.09	Company of the Land of the Lan	
Plonsk <sup>6</sup> )	2050		-0 0 34.29 -1 21 31.9	The same of the same of	+42 44 57.8 +52 26 28.2	9.999518
Pola				-13.39	THE RESERVE OF THE PARTY OF THE	
I 01a	32	T44 51 48.0	-0 55 23.07	- 9.10	+44 40 12.9	9.999277
Porto Alegre 7) MerKr	-	-30 I 5I	+3 24 53.2	+33.66	-29 51 49	9.999636
Posen		+52 23 48.6	—ı 7 30.60	-11.09	+52 12 35.4	9.999090
Potsdam (Astrophys. Obs.)		+52 22 56.0	- 0 52 15.86	- 8.59	+52 11 42.7	9.999091
Potsdam (Geod.Inst.) Turm	99	+52 22 54.8	- 0 52 16.11		+52 11 41.5	
Potsdam (Geod. Inst.)			- 0 52 16.058		+52 11 41	9.999091
Östl. Meridianh.		The state of the state of	1	The state of	100000 1000	

¹) Dr. Max Mündler. — ²) Yale University. Alte Sternwarte 45"8 südlich, 1.58 westlich. — ³) Herr R. Bischofsheim. — 4) Chahot Observatory. — 5) Flower Obs. (Univ. of Pennsylvania). — 6) Dr. Jedrzejewicz; 1898 nach Warschau verlegt. — 7) Observatorio Regional do Rio Grande do Sul.

			CONTRACTOR OF THE PARTY OF THE		1 10 10 10	
Name	See- höhe	Geogr. Breite	Länge von Greenwich + westlich - östlich	Korr. der Sternzeit	Geoz. Breite	Log. p incl. Seehöhe
	m		h m s	s	0 / /	
Poughkeepsie <sup>1</sup> )	61	+41 41 18	+ 4 55 35.2	+48.56	+41 29 47	9.999360
Prag (Obs. Andreasdorf)	527	+49 54 38.1	- 0 59 8.08	- 9.71	+49 43 12.3	9.999182
Prag (Klementinum) Turm.	197	+50 5 16.0	- 0 57 40.29	- 9.47	+49 53 50.9	9.999155
Princeton N.J. (N.Stw.)2)	75	+40 20 55.8	+ 4 58 39.44	+49.06	+40 9 29.7	9.999395
Providence (Ladd. Observ.)	69	+41 50 15.6	+ 4 45 35.95	+46.92	+41 38 44.4	9.999357
Pulkowa Zentr. d. Stw	75	+59 46 18.5	- 2 1 18.57	-19.93	+59 36 12.3	9.998914
T 1 '' 9'				35		
Pulsnitz <sup>8</sup> )	284	+51 10 54.6	- 0 56 4.18	- 9.21	+50 59 34.6	9.999134
Quebec Canada	90	+46 47 59.2	+ 4 44 52.71	+46.80	+46 36 24.8	9.999231
Quito	2846	- 0 14 0	+ 5 13 58.20	+51.58	- O 13 54	0.000194
Riga (Polytechnikum) Turm	3	+56 57 7	- 1 36 28.11	-15.84	+56 46 30	9.998974
Rio de Janeiro	63	-22 54 23.7	+ 2 52 41.52	+28.37	-22 46 6.0	9.999784
Rio de Janeiro (N. Stw.)	33	-22 53 42.1	+ 2 52 53.6	+28.40	-22 45 24.7	9.999782
Rom (Coll. Rom.) MerKr.	59	+41 53 53.6	- 0 49 55.36	- 8.19	+41 42 22.3	9.999354
Rom (Capitol) MerKr	65	+41 53 33.2	- 0 49 56.34	- 8.20	+41 42 1.9	9.999355
Rom (Vatican) MerKr.4).	100	+41 54 12.4	The second secon	- 8.18	+41 42 41.1	9.999357
Rousdon	157	+50 42 38	+ 0 11 58.9	+ r.96	+50 31 16	9.999137
Rugby	119	+52 22 30	+ 0 5 2.0	+ 0.83	+52 11 16.7	9.999937
St. Louis Missouri	119	+38 38 3.6	+ 6 0 49.15	+59.28	+38 26 45.5	9.999093
		1 30 30 3.0	+ 0 0 49.13	₹59.20	1 30 20 43.3	9.999433
Saltsjöbaden (Stockholms Observator.)	5\5	+59 16 18	- 11314	-12.03	+59 6 6	9.998924
San Fernando	. 30	+36 27 42.0	+ 0 24 49.30	+ 4.08	+36 16 37.7	9.999488
San Francisco <sup>5</sup> )		+37 47 28.0	+ 8 9 42.81	+80.45	+37 36 14.8	9.999453
Santiago de Chile (N.St.)	580	-33 33 44.2	+ 4 42 46.0	+46.44	-33 23 4.1	9.999595
Santiago de Chile (A.St.)	619	-33 26 25.4		+46.42	-33 15 46.4	9.999600
Sendai (DurchgInstr.)	36	+38 15 14.9	- 9 23 29.49	-92.57	+38 3 59.0	9.999444
			3	),		
Sétif	1120	+36 11 10	- 021 38.6	- 3.55	+36 0 7.7	9.999569
Simeïs	360	+44 24 11.6	- 2 15 59.38	-22.34	+44 12 36.1	9.999312
Sofia (Mil. Geogr. Inst.)	555	+42 41 51	- 1 33 19.87	<b>—</b> 15.33	+42 30 18	9.999368
Sofia (Universitätssternwarte)	572	+42 41 1.7	- I 33 23.3	-15.34	+42 29 28.5	9.999369
Sonneberg (Erbisbühl)	640	+50 22 41.4	- 0 44 46.19	- 7.36	+50 11 17.5	9.999178
South Hadley	76	+42 15 18.2	+ 4 50 19	+47.69	+42 3 45.9	9.999346
Ct. 1: 1-1	16,50	1.0	Marine College	15 15 6		15 A 46 2
Stalinabad (Tadjik Observ.)		+38 33 30	- 4 35 6.2	-45.19	+38 22 12	9.999434
Stará Dala )	113	+47 52 27.3	- 1 12 45.49	-11.95	+47 40 54.9	9.999206
Stockholm (A.St.)MKr.7)			- 1 12 13.97		+59 10 21.4	
Stonyhurst		+53 50 40.0		The second second	+53 39 36.5	Property (1997)
Straßburg (N.St.) MKr.8)	144	+48 35 0.4	- 0 31 4.53	- 5.10	+48 23 29.9	9.999190
Stuttgart (Schwab, Sternw.)	344	+48 47 0.7	- 0 36 47.39	- 6.04	+48 35 30.8	9.999198
Swarthmore (Sproul Obs.)	60	+20 54 16.0	+ 5 1 25.62	140 fc	+20 42 51 0	0.000401
		+39 54 16.2			+39 42 51.9	
Sydney Sydney (Riverview Coll. Obs.)		-33 51 41.1			-33 40 58.2	
		-33 49 45.7			-33 39 3.1 +19 17 3.0	9.999552
Tacubaya <sup>9</sup> )	2311	The second second second	+ 6 36 46.71	A CONTRACTOR OF THE PARTY OF TH	The state of the s	9.999997
Tartu (Dorpat, Jurjew) MerKr.	67	+58 22 47.2	- 1 46 53.19	<b>—17.56</b>	+58 12 25.1	9.998946
1) 77 (5.31 2) 4:	N		11-1 - SO 4 "- 111 - 1	0 × 21	D-1	- J TT

¹) Vassar College. — ²) Alte Sternwarte 2."0 nördlich, 1. 94 östlich; 65 m. — ²) Privatsternwarte des Herrn Classen. — ¹) 1933 nach Castel Gandolfo verlegt. — ²) Davidson Observatory. — ²) Früher O-Gyalla. — ²) Neue Sternwarte seit 1931 in Saltsjöbaden. — ²) Seit Anfang 1881. — ²) Seit März 1883, früher in Chapultepec.

## Koordinaten der Sternwarten

Name	See- hohe	Geogr. Breite	Länge von Greenwich + westlich - östlich	Korr. der Sternzeit	Geoz. Breite	Log. p incl. Seehöhe
	m		h m s	S		
Taschkent MerKr	475	+41 19 31.6	- 4 37 10.88	-45.53	+41 8 2.0	9.999397
Teramo (Cerulli)	398	+42 39 27	- 0 54 55.8	- 9.02	+42 27 54	9.999358
Tokio MerKr	57	+35 40 19	- 9 18 9.90	- 91.69	+35 29 21	9.999509
Toronto (Univ. Obs.)	110	+43 39 46.0	+ 5 17 34.70	+ 52.17	+43 28 11.2	9.999313
Toronto (Dunlap Obs.)	244	+43 51 46	+ 5 17 41.3	+ 52.19	+43 40 11	9.999317
Tortosa (Ebro-Stw.) MKr.	54	+40 49 14	- O I 58	- 0.32	+40 37 46	9.999382
Toulouse MerKr	195	+43 36 44.0	- 0 551.01	— 0.96	+43 25 9.3	9.999329
Triest (R. Oss. Astr.)	68	+45 38 35.5			+45 27 0.0	9.999259
Tsingtau (Metastr. Stat.).	W1504 3355	+36 4 11.3	The state of the s	- 79.06	+35 53 9.8	9.999496
Tucson Arizona (Steward Obs.)	757	+32 13 59.4	The second second second	+ 72.90	+32 3 32.6	9.999638
Turin MerKr	276	+45 4 7.9	A CONTRACTOR OF THE PARTY OF TH	- 5.06	+44 52 32.2	9.999030
Turin (Pino Torinese)	618	+45 2 16.3	Control of the Contro	- 5.11	+44 50 40.6	9.999200
	57.045	01 10313 19			- 4000000000000000000000000000000000000	THE RESERVE
Turku (Spiegelteleskop)	28	+60 27 8.7	The second secon	<b>— 14.61</b>	+60 17 10.7	9.998896
Upsala (N.Stw.) PassInstr.	21	+59 51 29.4	The state of the s	<b>—</b> 11.58	+59 41 24.2	9.998909
Urbana III.	236		+ 5 52 53.90	05-40305-F-15-1975-1	+39 54 55.1	9.999412
Utrecht	12	+52 5 9.5	20 20 20 21 10 20 20 20 EVEN TO BUILDING	- 3.37	+51 53 54.4	9.999093
Valkenburg (IgnatiusColl.)	100	+50 52 29.3	the second secon		+50 41 7.8	9.999129
Venedig	15	+45 26 10.5	- 0 49 22.12	- 8.11	+45 14 34.9	9.999261
Victoria B.C.(Domin.Obs.)	229	+48 31 15.7	+ 8 13 40.17	+ 81.18	+48 19 45.0	9.999197
Warschau <sup>1</sup> ) Zentr. d. Stw.	121		- 1 24 7.25	OF THE PARTY OF TH	+52 1 50.3	9.999097
Warschau <sup>2</sup> )	374	+52 13 10	- 1 24 4.8	- 13.81	+52 1 56	9.999088
Warschau (Techn. Hochsch.)	144	+52 13 21.0		- 13.81	+52 2 6.8	9.999098
Washington (Alte Stw.) .	31	+38 53 38.9	ALCOHOLD STATE OF THE PARTY OF	+ 50.63	+38 42 19.4	9.999428
Washington (Neue Stw.) .	82	+38 55 14.0	The Real Property of the Control of	+ 50.64	+38 43 54.4	9.999431
Washington (Kath. Univ.)		+38 50 14.8	+ 5 8 0.0	+ 50.60	+38 44 55.1	0.000325
Wellington Transit Instr.3)	127	<b>—41 17 3.8</b>	THE REST OF THE PARTY OF THE PA	-114.84	-4I 5 34.3	9.999425
West Point N. Y. (N. St.)4)	170	+41 23 22.1		+ 48.60	+41 11 52.3	9.999375 9.999375
Wien (Alte Sternw.)	167	+48 12 35.5		<b>–</b> 10.76	+48 1 3.9	9.9993/3
Wien (Josephstadt) <sup>5</sup> )	214		- 1 5 25.17	- IO.74	+48 1,22.2	9.999204
Wien (Neue Sternw.) Zentr.	240	+48 13 55.3		A CONTRACTOR OF THE PARTY OF TH	+48 2 23.8	9.999205
	Theres.		AND NOTE OF STREET	42/16/20		200
Wien (Ottakring) <sup>6</sup> )	a 200 3 10	+48 12 46.7		AND THE PARTY OF T	+48 1 15.1	
Wien (Mil. Geogr. Inst.)	211	+48 12 40.5		the Country of the Co	+48 1 8.9	9.999203
Wien (Techn. Hochschule) .			F I 5 29.76			9.999204
Wilhelmshaven MerKr			- 0 32 35.15			
Williams-Bay Wisc.7).	The second second second		+ 5 54 13.24	+ 58.19	+42 22 39.6	
Williamstown Mass	213	+42 42 49	+ 4 52 53.5	+ 48.12	+42 31 16	9.999344
Wilna PassInstr	122	+54 40 59.1	- 141 8.76	- 16.61	+54 30 2.1	9.999036
Windhuk			- 1 8 15.07			
Wolfersdorf	279	+50 47 20.0	- 0 46 50.94	- 7.70	+50 35 58.0	9.999143
Würzburg (Neue Univ Sternw. Zentr.)	207	CONTRACTOR OF THE PARTY OF THE	- 0 39 44.71	A PROPERTY OF THE PARTY OF THE	THE SPECIAL PROPERTY OF THE PARTY A STATE OF THE PARTY OF THE PAR	
Zô-se China	100		- 8 4 44.75			
Zürich Meridian-Kreis		+47 22 38 3	- 0 34 12.3	- 5.62	+47 11 4.8	9.990242
	September 1	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		17.00	CA THE STATE OF	, J. J. J. J. T.

<sup>&</sup>lt;sup>3</sup>) Universitäts-Sternwarte. — <sup>3</sup>) Dr. Jedrzejewicz; seit 1898, früher in Plonsk. — <sup>3</sup>) Dominion Observatory. — <sup>4</sup>) Seit 1883. Alte Sternwarte 9", nördlich, 1 <sup>5</sup>, 2 östlich. — <sup>5</sup>) von Oppolzers Sternwarte. — <sup>5</sup>) v. Kuffner. — <sup>7</sup>) Yerkes Observatory.

Normalzeit = Mittl. Ortszeit des Meridians	Bezeichnung	Staaten
östl. Gr.		
h m		Neuseeland
10 0	Ostaustralische Z.	Viktoria, Neusüdwales, Queensland, Tasmanien, Neuguinea
9 30	Südaustralische Z.	Südaustralien
9 0	Mittl. Japan-Z.	Japan, Mandschukuo, Korea
8 o	Chinesische Küsten-Z.	Ostküste von China, Philippinen, Celebes, West- australien
7 30	Java-Zeit	Bali, Borneo, Java, Lombok
7 0	Südchinesische Küsten-Z.	Südküste von China, Franz. Indochina, Thailand
5 30		Indien, Ceylon
4 0		Europ. Rußland*) von 40° bis 52° 30′ östl. Länge
3 0		Europ. Rußland*) westl. von 40° östl. Länge
2 0	Osteuropäische Z.	Finnland, Bulgarien, Rumänien, Griechenland, Türkei,
		Palästina, Ägypten, Südafrika
1 0	Mitteleuropäische Z.	Norwegen, Schweden, Dänemark, Deutschland,
	(M. E. Z.)	Ungarn, Schweiz, Italien, Tschechoslowakei,
	A	Jugoslawien
0 20	Amsterdamsche Zeit	Niederlande
h m		
0 0	Westeuropäische Z. (Greenwich-Z.)	Belgien, Frankreich, Großbritannien und Irland, Portugal, Spanien, Gibraltar, Algerien
westl. Gr.		
h m		
1 0		Island, Madeira, Kanarische Inseln
2 0		Azoren, Kapverdische Inseln, Grönland-Scoresby-
		sund
3 0	- ·	Ostbrasilien, Grönland-Westküste und Angmagsalik,
4 2 2 2 2		Argentinien (1. Nov Ende Febr.), Uruguay
5 T 1 T 1		(Nov.—März)
3 30		Uruguay (April—Okt.)
4.0	Intercolonial St. Time	Mittelbrasilien, Argentinien (1. März-31. Okt.),
		Kanada (Küste), Paraguay, Chile, Bolivien
4 30	Eastern St. Time	Venezuela
∠ , <b>5</b> . ο	Eastern St. 11me	Kanada (Quebec, Ontario zwischen 68° und 90° westl.), Verein. Staat. (Ostzone), Panama, Peru, Ekuador, Westbrasilien, Kolumbien
6 o	Central St. Time	Zentralzone von Kanada u. v. d. Verein. Staaten, Mexiko, mit Ausnahme des nördl. Teiles
7 0	Mountain St. Time	Gebirgszone von Kanada u. v. d. Verein. Staaten
8 0	Pacific St. Time	Vereinigte Staaten (pazifische Küste), Britisch-
		Kolumbien, nördl. Mexiko
9 0		Alaska östl. von 141° westl. Länge
10 0		Alaska zwischen 141° und 162° westl. Länge
10 30		Hawai (Sandwichinseln)
11 0		Alaska westl: von 162°, Aleuten, Samoa
- S. F. S. W. L. F.		Markov Markov Markov Markov Markov Markov Markov Markov Markov Markov Markov Markov Markov Markov Markov Markov

<sup>\*)</sup> Im Gebiet der Sowjetrepubliken sind alle Uhren 1 Stunde vorgestellt.

# Besondere Erläuterungen zu den Angaben und zum Gebrauch des Jahrbuches

Das Jahrbuch gibt die Örter der *Planeten* in geozentrischen und in heliozentrischen Koordinaten. Die Zeitpunkte, für die sie gelten, sind in Weltzeit ausgedrückt, wenn nicht ausdrücklich eine andere Zeit angegeben wird. —Weltzeit ist identisch mit Bürgerlicher Zeit Greenwich. Der bürgerliche Tag beginnt um Mitternacht, die Weltzeit-Stunden sind von o<sup>h</sup> bis 24<sup>h</sup> durchgezählt. Die Beziehung zu der bis zum Jahrgang 1924 (einschließlich) im Jahrbuch verwendeten Mittleren Zeit Greenwich besteht darin, daß der astronomische mittlere Tag erst am Mittag des bürgerlichen Tages, also 12<sup>h</sup> nach dessen Anfang beginnt. Somit ist 1925 Jan. 1, 0<sup>h</sup> Weltzeit gleich 1924 Dez. 31, 12<sup>h</sup> Mittlere Zeit Greenwich.

Die Örter der Fixsterne sind gegeben als »Mittlere Sternörter«, bezogen auf das mittlere Äquinoktium des Jahresanfangs, und in Ephemeridenform als »Scheinbare Sternörter«, bezogen auf das instantane wahre Äquinoktium.

Zur Erläuterung ist im einzelnen folgendes zu bemerken:

#### Sonnenephemeride (S. 2-29 und 100-108).

Der erste Teil der Sonnenephemeride (S. 2—19) gibt auf den l i n k e n Seiten für o<sup>h</sup> Weltzeit an jedem Tage:

- 1) Die Zeitgleichung = Wahre Zeit minus Mittlere Zeit:
- 2) Die geozentrischen, äquatorialen Koordinaten α, δ des scheinbaren Sonnenorts, bezogen auf das jedesmalige wahre Äquinoktium, zugleich mit der ersten Differenzenreihe. Diese Angaben sind direkt mit den Beobachtungen vergleichbar. Die Nutationsglieder kurzer Periode sind, wie im Vorwort erwähnt, in den Koordinaten nicht enthalten.
- 3) Die halbe Durchgangsdauer (in Sternzeit) der Sonnenscheibe durch den Meridian.
- 4) Den geozentrischen Halbmesser der Sonnenscheibe, d. i. der Winkel, unter dem der Sonnenhalbmesser vom Erdmittelpunkt aus erscheint.

Die rechten Seiten geben:

1) Die Julianische Zeit, d. i. die Anzahl der seit Beginn der Julianischen Periode verflossenen mittleren Sonnentage.

2) Die Sternzeit für o<sup>h</sup> Weltzeit. In ihr sind, wie im Vorwort erwähnt, nur die langperiodischen Glieder der Nutation enthalten.

Um für einen Erdort der westlichen Längendifferenz Δ λ (in Stunden) gegen Greenwich die Sternzeit in seiner mittleren Mitternacht zu erhalten, ist zu diesen Angaben hinzuzulegen: 9<sup>8</sup>8565 Δ λ. Diese Werte finden sich unter der Überschrift: »Korr. der Sternzeit« im Verzeichnis der Sternwarten.

3) Die Nutation in Rektaszension getrennt nach langperiodischen und kurzperiodischen Gliedern.

- 4) Die geozentrischen ekliptikalen Koordinaten  $\lambda$ ,  $\beta$  der Sonne, bezogen auf das mittlere Äquinoktium des Jahresanfangs, sowie die Entfernung R der Erde von der Sonne. Diese Angaben finden bei Bahnberechnungen u. dergl. Verwendung.
- 5) Die bürgerlichen Ortszeiten des Aufgangs und Untergangs der Sonne für einen Ort des Nullmeridians in + 50° Breite; sie sind mit der Horizontalrefraktion 34′ berechnet und gelten für den oberen Rand der Sonne. Um daraus für einen beliebigen anderen Ort zwischen +30° und +60° geographischer Breite die entsprechenden Angaben zu erhalten, ist die Tabelle S. 368\*, 369\* zu benutzen.

Auf S. 20—28 folgen, bezogen auf das mittlere Äquinoktium des Jahresanfangs, die rechtwinkligen, geozentrischen, äquatorialen Sonnenkoordinaten für oh Weltzeit mit ihren ersten und zweiten Differenzen. Die gleichen Koordinaten, jedoch bezogen auf das Normaläquinoktium 1950.0, werden auf S. 100—108 gegeben.

Die Werte von X, Y, Z sind auf 6 Dezimalen gegeben. Die Ephemeriden bieten jedoch die Möglichkeit, die Sonnenkoordinaten auch auf 7 Dezimalen zu entnehmen. Zu diesem Zwecke füge man an die 6-stelligen Werte eine Null an und vereinige sie algebraisch mit den Werten von  $\Delta X$ ,  $\Delta Y$ ,  $\Delta Z$ . Ein ausführliches Beispiel hierfür ist im Jahrgang 1933, S.  $362^*$  gegeben.

Die gleichen Vorschriften gelten für die auf das Normaläquinoktium 1950.0 bezogenen Sonnenkoordinaten auf S. 100—108.

Am Fuß der Seite 28 finden sich die Zeiten für die Anfänge der Jahreszeiten und für die Erdnähe und Erdferne der Sonne.

Die Seite 29 enthält die Aberration, Parallaxe, mittlere Länge  $L_{\odot}$  und mittlere Anomalie  $M_{\odot}$  der Sonne im Intervall von je 10 Tagen.

## Mondephemeride (S. 30-48).

Die Mondephemeride (S. 30-47) gibt auf den linken Seiten für ob Weltzeit.

- r) Die scheinbare Rektaszension und Deklination des Mondmittelpunktes mit den ersten Differenzen.
  - 2) Die Äquatorial-Horizontalparallaxe  $p_{\mathbb{C}}$  des Mondes.
- 3) Den geozentrischen Mondhalbmesser  $r_{\mathbb{Q}}$ , d. i. der Winkel, unter dem der Mondhalbmesser vom Erdmittelpunkt aus erscheint.
  - 4) Die Länge und Breite des Mondes, abgekürzt auf o°001.

Die rechten Seiten enthalten:

- 1) Für den oberen Durchgang des Mondes durch den Meridian von Greenwich die genäherten Angaben für die Rektaszension, Deklination und Parallaxe des Mondmittelpunktes, sowie die bürgerliche Greenwicher Zeit dieses Durchgangs, nebst den Änderungen für 1<sup>h</sup> westlicher Längendifferenz.
- 2) Die bürgerlichen Ortszeiten des Aufgangs und Untergangs des Mondes für einen Ort des Nullmeridians in +50° Breite nebst Änderung für 1<sup>h</sup> westlicher Längendifferenz; sie sind mit der Horizontalrefraktion 34′ berechnet und gelten für den oberen Rand des Mondes. Um daraus

Seite 48 enthält die Zeitangaben für die Phasen, die Erdnähe und Erdferne des Mondes.

## Ephemeriden der Großen Planeten (S. 49-99 und 109-112).

Die geozentrischen Örter der Planeten sind für Merkur, Venus, Mars, Jupiter, Saturn von Tag zu Tag, für Uranus und Neptun von 3 zu 3 Tagen für ob Weltzeit mit ihren ersten Differenzen gegeben. Für die Planeten Merkur bis Neptun sind scheinbare, auf das momentane wahre Äquinoktium bezogene Örter gegeben. Die letzte Spalte gibt die bürgerliche Zeit (Greenwich) der oberen Kulmination in Greenwich.

Die scheinbaren Halbmesser in der Einheit der Entfernung sind:

Merkur 3.34	Saturn (äquat.)	
Venus 8.41	» (polar)	74.57
Mars 4.68	Uranus	34.28
Jupiter (äquat.) 98.47	Neptun	36.56
» (polar) 91.91		

Die heliozentrischen Ephemeriden der Planeten (S. 109—112) geben den Log. des Radiusvector, die Länge, deren Reduktion auf die Bahn und die Breite bezogen auf das mittlere Äquinoktium 1950.

 $\bigcirc$  und i stellen die Bahnlage für die Epoche 1950.0 und das Normaläquinoktium 1950.0 dar.

'Die Genauigkeit und Ausführlichkeit dieser heliozentrischen Angaben sind ihrem Hauptzweck, zur Berechnung der speziellen Störungen zu dienen, angepaßt.

Die beigefügten Werte der Planetenmassen sind die den Tafeln von Newcomb und von Hillzugrunde liegenden. Für die Erde ist noch besonders zu erwähnen, daß die Masse von »Erde + Mond« gegeben ist, Radiusvector und heliozentrische Länge sich auf den Schwerpunkt des Systems »Erde + Mond« beziehen.

## Mittlere Örter von 1535 Fixsternen (S. 2\*-40\*).

Die mittleren Örter der 1535 Fixsterne sind aus den Angaben des Dritten Fundamentalkatalogs des Berliner Astronomischen Jahrbuchs (I. Teil: Veröffentlichungen des Astronomischen Rechen-Instituts Nr. 54, II. Teil: Abhandlungen der Preußischen Akademie der Wissenschaften Jahrg. 1938, Phys. math. Klasse Nr. 3) abgeleitet worden. Die in Teil I durch ein  $\dagger$  gekennzeichneten Sterne sind von 1944 ab weggelassen worden. Die in Teil II enthaltenen Zusatzsterne sind durch ihre Nummern, die alle über 1000 liegen, leicht zu erkennen. Die zusätzlichen Polsterne sind mit den griechischen Buchstaben  $\alpha-\pi$  bezeichnet. Die Örter aller Polsterne sind durch trigonometrische Übertragung erhalten worden. Die jährlichen Veränderungen gelten für die Mitte des Jahres. Ein \* vor dem Namen weist auf eine Anmerkung am Fuß der Seite, hin.

Unter Gr. stehen die visuellen Größen, welche aus dem "Henry Draper Catalogue (Harvard Annals, Vol. 91—99)" entnommen sind. Bei einigen weiten Doppelsternen ist an Stelle der im H. D. C. angegebenen Gesamthelligkeit die Helligkeit der hellen Komponente angeführt. Bei Veränderlichen sind die Grenzen der Helligkeit angegeben; beziehen sich diese auf photographische Größen, so sind sie durch kursiven Druck kenntlich gemacht.

Die Spektren sind aus dem Draper Katalog übernommen worden. Zusammengesetzte Spektren sind durch + gekennzeichnet. In anderen Fällen beziehen sich, wo 2 Spektren gegeben sind, diese auf die Komponenten eines Doppelsterns.

## Scheinbare Örter von 584 Fixsternen (S. 41\*-250\*).

Die scheinbaren Rektaszensionen und Deklinationen der Fixsterne sind für den Moment der oberen Kulmination im Meridian von Greenwich gegeben.

Die Ephemeriden der 560 Sterne mit Deklinationen kleiner als 80°, deren scheinbare Örter von 10 zu 10 Sterntagen gegeben sind, enthalten die kurzperiodischen Mondglieder der Nutation nicht. Das Datum des Tages, an welchem zwei Kulminationen stattfinden, ist in kleinem Druck vor der Rektaszensionsspalte angeführt.

Die jährliche Parallaxe ist bei folgenden Sternen berücksichtigt, bei denen sie hinreichend verbürgt erscheint, nämlich:

Nr. 10 ζ Tucanae	mit	0.133	Nr. 538 a Centauri mit o.	756
Nr. 11 β Hydri		0.143	Nr. 667 µ Herculis » o.	00.00000
Nr. 59 τ Ceti	*	0.298	Nr. 695 x Draconis » o.	119
Nr. 127 & Eridani	»	0.305	Nr. 699 α Lyrae » o.	121
Nr. 257 a Canis maj.	»	0.377	Nr. 745 α Aquilae » o.	208
Nr. 291 a Canis min.	*	0.291	Nr. 754 & Pavonis » o.	174
Nr. 295, β Geminor.	»	0.100	Nr. 793 61 Cygni » o	299
Nr. 445 \( \begin{aligned} \text{Virginis} \end{aligned} \)	»	0.101	Nr. 805 γ Pavonis » o.	113
Nr. 470 β Canum ver	n. »	0.108	Nr. 867 a Piscis austr. » o.	135
Nr. 492 B Comae	<b>»</b>	0.121	Nr. 875 Br 3077 Cass. » o.	146
Nr. 513 n Bootis	»	0.112		

Von den im B. J. nicht mit Ephemeriden versehenen Sternen des FK 3 besitzen noch folgende hinreichend verbürgte Parallaxen:

Nr.	119 82 G. Eridani	0.159	Nr. 1073 268. G. Ceti	0,147
Nr.	135 8 Eridani	0.112	Nr. 1093 z Ceti	0.106
Nr.	217 γ Leporis	0.122	Nr. 1134 π <sup>3</sup> Orionis	0.128
	239 a Mensae	0.118	Nr. 1300 61 Ursae maj.	0.109
Nr.	825 E Indi	0.288	Nr. 1307 Grb 1830 U Maj	0.108
Nr.	1019 96 G. Pisc.	0.148	Nr. 1345 61 Virginis	0.116
Nr.	1030 μ Cassiop.	0.130	Nr. 1391 33 G. Librae	0.172

Die Ephemeriden der auf S. 2\*-40\* eingeklammerten Sterne findet man in «Apparent Places of Fundamental Stars». H. M. Stationary Office, London.

Es folgen die scheinbaren Örter von 20 Polsternen für jede obere Kulmination. Sie enthalten die kurzperiodischen Mondglieder nicht, jedoch sind deren Werte in besonderen Spalten gegeben.

Am Fuße der Ephemeriden ist der mittlere Ort eines jeden Sternes für den Anfang des Jahres und die Werte von sec  $\delta$  und tg  $\delta$  angegeben, welche bei der Reduktion der Meridianbeobachtungen nach der hierfür am zweckmäßigsten erscheinenden Besselschen Formel gebraucht werden. Ferner sind hier die Größen a, b, a', b' enthalten, mit deren Hilfe die Nutationsglieder kurzer Periode leicht berechnet werden können. Man erhält A'a+B'b in Zeitsekunden, A'a'+B'b' in Bogensekunden.

Auf den Seiten 241\*-250\* sind die rechtwinkligen Koordinaten der scheinbaren Örter von vier polnahen Sternen gegeben. Sie beziehen sich auf ein Koordinatensystem, dessen positive x-Achse nach dem Frühlingspunkt und dessen positive y-Achse nach dem Punkt  $\alpha=6^{h}$ ,  $\delta=0^{\circ}$  gerichtet ist. Der Zusammenhang zwischen x, y und  $\alpha$ ,  $\delta$  ist gegeben durch die Beziehungen:  $x=\cos\delta\cos\alpha$ ,  $y=\cos\delta\sin\alpha$ . Die Angaben gelten für  $12^{h}$  Sternzeit Greenwich und enthalten die kurzperiodischen Mondglieder der Nutation nicht, deren Werte jedoch in der letzten Spalte einer jeden Seite unter der Überschrift »Kurzperiod.Nutationsgl. « gegeben sind.

Als Quellen für die Koordinaten und Eigenbewegungen dieser vier Sterne sind benutzt worden:

für BD + 89°1: L. Courvoisier: Neue Position und Eigenbewegung des Polsterns BD + 89°1. Astron. Nachr. Bd. 273, S. 87.

für BD + 89°3 und + 89°37: L. Courvoisier: Beobachtungen der Polsterne BD + 89°3 und BD + 89°37 am Vertikalkreis
1914—1926. Veröff. der Universitäts-Sternwarte zu
Berlin-Babelsberg, Band XII, Heft 2.

für CPD — 89°38: Cape Annals Bd. XI, II, 244 für den Ort und eine briefliche Mitteilung für die Eigenbewegung.

Damit werden die mittleren Örter für 1947.0:

Name	Gr.	x	Jährl. Veränd. 1947-5	Jährl. Eigen- bew.	y	Jährl. Veränd. 1947-5	Jährl. Eigen- bew.
	m	"	"	"	"	"	"
BD+89° 1	10.56	- 420.02	-20.071	-0.011	+ 78.25	-0.106	,-0.010
BD+89° 3	9.06	- 222,02	-20.242	-0.006	+863.28	-0.058	-0.006
BD+89° 37	10.06	-1201.41	-19.976	-0.011	-346.91	-0.256	+0.015
CPD -89° 38	9.5	+ 114.75	+20:139	+0.027	-307.15	+0.059	+0.031

#### Reduktionsgrößen (S. 252\*-287\*).

Auf die scheinbaren Örter der Sterne folgt S. 251\* eine Zusammenstellung der Werte, mit welchen die Reduktionsgrößen der darauf folgenden Tafeln berechnet sind, und der Formeln für die Reduktion auf den scheinbaren Ort.

Die Größen zur »Reduktion auf den scheinbaren Ort« sind in ihrer ersten Form: A, B, C, D, E; A', B' gegeben für 12<sup>h</sup> Sternzeit des Meridians von Greenwich:

- · 1) Auf S. 270\*—278\* für jeden Sterntag. Hier sind die numerischen Werte von A, B, C und D mit ihren Differenzen gegeben und die kurzperiodischen Nutationsglieder A' und B' mit angeführt.
- 2) Auf S. 279\* im Intervall von 10 Sterntagen.

Diese Tafel soll zur Berechnung von Sternephemeriden für die Epochen der Meridiandurchgänge dienen. Wegen ihrer logarithmischen Form und des großen Intervalls ist die Tafel zur Interpolation nicht geeignet. Man wird deshalb zweckmäßig die Interpolation erst nach der Summierung der einzelnen unmittelbar für die Epochen der Tafel berechneten Glieder vornehmen.

Beiden Tafeln ist in einer Spalte die dem festen Sternzeitmoment jedesmal entsprechende Weltzeit vorangestellt; man wird hiernach auf jeden beliebigen Zeitpunkt, gegeben durch Datum, Sternzeit und Längendifferenz gegen Greenwich, übergehen können. Eine weitere Spalte gibt die seit Beginn des annus fictus verflossene Zeit in Bruchteilen des tropischen Jahres.

Die Reduktionsgrößen der zweiten Form: f, log g, G, log h, H, log i und i, sowie f', g' und G' sind auf S. 252\*—269\* von Tag zu Tag für oh Weltzeit gegeben.

Auch hier findet sich eine Spalte, t überschrieben, welche die seit Beginn des annus fictus verflossene Zeit in Bruchteilen des tropischen Jahres gibt. Ferner ist die Sternzeit Greenwich für o $^{\rm h}$  Weltzeit gegeben.

Die Seiten mit ungerader Seitenzahl enthalten außer den schon erwähnten f', g', G' noch folgende Größen:

- a)  $\psi$  = Allgemeine Präzession seit Jahresanfang.
- b)  $\Delta \psi = \text{Langperiodische Glieder der Nutation in Länge.}$
- c) Δψ'= Kurzperiodische Glieder der Nutation in Länge.
- d) ε == Mittlere Schiefe der Ekliptik.
- e) 🛮 z = Langperiodische Glieder der Nutation in Schiefe.
- f)  $\Delta \epsilon' = \text{Kurzperiodische Glieder der Nutation in Schiefe.}$
- g) Die Koeffizienten j und k der Formeln auf S. 282\*.

Die wahre Schiefe erhält man durch Addition der Gesamtnutation ( $\Delta \varepsilon + \Delta \varepsilon'$ ) zu der mittleren Schiefe.

Auf S. 280\* findet sich eine Tafel der Hilfsgrößen zur Berechnung der Präzession von verschiedenen mittleren Äquinoktien bis 1947.0

S. 281\* enthält eine Tafel der Hilfsgrößen zur Übertragung der Polsternörter von verschiedenen mittleren Äquinoktien auf das mittlere Äquinoktium 1947.0.

Auf S. 282\* sind die Formeln zusammengestellt, mit welchen bei Anschlußbeobachtungen die gemessenen Koordinatendifferenzen der scheinbaren Örter in solche der mittleren Örter für den Jahresanfang übergeführt werden. Die in diesen Formeln auftretenden Koeffizienten j und k sind auf den Seiten 253\*-269\* enthalten und haben die Bedeutung

$$j = 15 g \text{ are } 1'$$
  
 $k = 15 h \text{ are } 1'$ 

wobei g und h die auf den Seiten 252\*—268\*• gegebenen Reduktionsgrößen sind.

S. 283\* enthält eine Zusammenstellung der von der Deklination abhängenden Faktoren der Formeln auf S. 282\*.

S. 284\* enthält eine Tafel der numerischen Werte der Funktionen Sinus und Cosinus für in Zeit ausgedrückte Winkel. Ihre Benutzung erleichtert die Berechnung der Formeln auf S. 282\*.

Die Seite 285\* enthält eine Tafel zur Übertragung von Rektaszensions- und Deklinationsdifferenzen vom mittleren Äquinoktium 1947.0 auf das Normaläquinoktium 1950.0. Man findet die auf das Normaläquinoktium 1950.0 bezogene Koordinatendifferenz, indem man an der auf das mittlere Äquinoktium 1947.0 bezogene Rektaszensionsdifferenz die differentielle Präzession  $\Delta p_\delta^a$  und an der Deklinationsdifferenz die differentielle Präzession  $\Delta p_\delta^a$  anbringt:

$$\Delta p_{\alpha}^{s} = a_{1} \operatorname{tg} \delta \cdot \Delta a^{m} + a_{2} \frac{1}{15} \operatorname{sec}^{2} \delta \cdot \Delta \delta',$$

$$\Delta p_{\delta}'' = d_{1} \cdot \Delta a^{m}.$$

Die Koeffizienten  $a_1$ ,  $a_2$  und  $d_1$  sind in der Tafel auf S. 285\* enthalten und haben die Bedeutung:

$$a_1 = (n)$$
 arc 1' cos  $\alpha$   
 $a_2 = (n)$  arc 1' sin  $\alpha$   
 $d_1 = -15$  (n) arc 1' sin  $\alpha$ .

 $\Delta a^{\rm m}$  und  $\Delta \delta'$  sind die auf das mittlere Äquinoktium 1947.0 bezogenen Rektaszensions- und Deklinationsdifferenzen in Zeit- bez. Bogenminuten. Nach den angegebenen Formeln findet man die differentielle Präzession für Rektaszension in Zeitsekunden, diejenige für Deklination in Bogensekunden.

Die auf Seite 286\* gegebenen Größen f, log g und G dienen zur Übertragung der Örter von dem *mittleren* Normaläquinoktium 1950.0 auf das jedesmalige wahre Äquinoktium. Die Berücksichtigung des Einflusses der Variatio saecularis bei dieser Übertragung ist durch die Tafeln auf S. 287\* gegeben. Diese enthalten in der ersten Reihe einer jeden Vertikalspalte die Werte von 0.045  $\times$  Var. saec. für die mit den Argumenten  $\alpha$  und  $\delta$  gegebenen Örter. Die an zweiter Stelle stehenden Zahlen einer jeden Vertikalspalte sind die einjährigen Änderungen von 0.045  $\times$  Var. saec. und sind, wenn erforderlich, bei der Entnahme des Einflusses der Variatio saecularis für den in Frage kommenden Bruchteil des Jahres zu berücksichtigen.

Eine Tafel zur Übertragung von Sternörtern vom mittleren Äquinoktium 1947.0 auf das Normaläquinoktium 1950.0 befindet sich auf den Seiten 288\*—290\*.

Die hier tabulierten Größen sind gerechnet nach den Formeln:

$$A = (n^{5}) \sin \alpha$$

$$D = (n'') \cos \alpha$$

$$B = (n^{5}) - 0.00001818 (n^{5})^{2} \sin 2 \alpha$$

$$AC = \operatorname{arc} tg C - C; C = A tg (\delta_{1947.0} + D)$$

$$P = -15 tg \frac{1}{2} \psi; tg \psi = \sin(n) \sin \alpha tg (\delta_{1947.0} + D)$$

$$\alpha = \alpha_{1947.0} + 90^{\circ} - (N)$$

Wegen der Größen (m), (n), (N) vgl. S. [5] der "Grundbegriffe der Sphärischen Astronomie" im Jahrbuch für 1916. Falls die auf S. 290\* gegebene Tafel für  $\Delta C$  und P nicht ausreicht, berechne man die Größen nach den vorstehend gegebenen Formeln oder benutze die weiterreichende Tafel in Veröff, d. Astronom. Rechen-Instituts Nr. 49.

## Sonnen- und Mondfinsternisse (S. 292\*-296\*).

Bei der Berechnung der Finsternisse des Jahres 1947 sind die Örter von Sonne und Mond um folgende Beträge verbessert worden:

1947 Mai 20 Sonne: 
$$\Delta \alpha + 0.07$$
  $\Delta \delta + 0.2$  Mond:  $\Delta \alpha - 0.10$   $\Delta \delta - 1.5$   
- Juni 3 ,, + 0.07 + 0.1 ,, -0.11 - 0.7  
Nov. 12 ,, + 0.07 - 0.3 ,, -0.12 - 0.4

Die bei den Sonnenfinsternissen gegebenen Besselschen Elemente dienen in der folgenden Weise zur Vorausberechnung der Phasenzeiten und der Positionswinkel der Kontakte:

Mit einer Ausgangszeit T (siehe weiter unten) entnimmt man der Elemententabelle die Werte:

x, y,  $\log \sin d$ ,  $\log \cos d$ ,  $\mu$ , l ( $l^{(a)}$  für äußere,  $l^{(i)}$  für innere Berührung),  $\log \tan f$  ( $f^{(a)}$  für äußere,  $f^{(i)}$  für innere Berührung), x' und y'.

Mit ihnen rechnet man das folgende Formelsystem durch:

$$\begin{cases} \xi = c \cos \varphi \sin (\mu - \lambda) \\ \eta = s \sin \varphi \cos d - c \cos \varphi \sin d \cos (\mu - \lambda) \\ \zeta = s \sin \varphi \sin d + c \cos \varphi \cos d \cos (\mu - \lambda) \\ \xi' = [7.6398 - 10] c \cos \varphi \cos (\mu - \lambda) \\ \eta' = [7.6398 - 10] \xi \sin d, \end{cases}$$

worin  $\varphi$  die geographische Breite,  $\lambda$  die westliche Länge (von Greenwich) des Beobachtungsortes bezeichnen, s und c aus der Tafel auf S. 365\* zu entnehmen sind.

Nun berechnet man aus:

(3)  $L = l - \zeta$  tang f $L^{(a)}$  mit  $l^{(a)}$  und  $f^{(a)}$ ,  $L^{(i)}$  mit  $l^{(i)}$  und  $f^{(i)}$ ; dann aus:

(4) 
$$\sin \psi = \frac{m \sin (M-N)^1}{L}$$

mit  $L^{(a)}$  und  $L^{(i)}$  je zwei Werte  $\psi^{(a_1)}, \psi^{(a_2)}$  und  $\psi^{(i_1)}, \psi^{(i_2)}$ , von denen der eine zum Eintritt der Erde in den Halb- oder Kernschatten-Kegel, der andere zu ihrem Austritt aus ihm gehört. Diesen vier Werten  $\psi^{(a_1)}, \psi^{(a_2)}$  und  $\psi^{(i_1)}, \psi^{(i_2)}$  entsprechen vier Werte  $\tau^{(a_1)}, \tau^{(a_2)}$  und  $\tau^{(i_1)}, \tau^{(i_2)}$  (in Zeitminuten) nach

(5) 
$$\tau = -\frac{m \cos (M-N)}{n} + \frac{L \cos \psi}{n},$$

um welche die Ausgangszeit T zu verbessern ist, um die Zeit der gesuchten Phase zu erhalten. Ist T die gesuchte Phasenzeit, so wird  $\tau = 0$  werden. Man muß daher das Formelsystem (1) bis (5) mit steigenden Näherungen so lange durchrechnen, bis dieser Fall eintritt, d. h. bis das Formelsystem sich schließt. Zu diesem Zweck beginnt man mit einem Näherungswert  $T_1$ , für den man, wenn kein besserer bekannt sein sollte, eine beliebige Zeit nahe der Mitte der Finsternis nehmen mag, und rechnet die erste genäherte Korrektion  $\tau_1$ ; dann wiederholt man die Rechnung mit  $T_2 = T_1 + \tau_1$ , dann mit  $T_3 = T_2 + \tau_2 = T_1 + \tau_1 + \tau_2$  usf. bis sich  $\tau_n = 0$  ergibt.  $T_n$  ist dann die gesuchte Weltzeit des Kontaktes, die durch Hinzufügung der Längendifferenz in mittlere Ortszeit zu verwandeln ist. Die Rechnung ist für jede Berührung gesondert durchzuführen.

Die Positionswinkel der einzelnen Phasen, in üblicher Weise vom Punkt größter Deklination nach Osten gezählt; folgen aus den Werten der letzten Näherung (Größen mit dem Index n) nach

$$P=N+\psi.$$

Will man den Winkelabstand Q vom Punkte der größten Höhe haben, so hat man von P noch den parallaktischen Winkel  $\gamma$  abzuziehen, der aus

$$p \sin \gamma = \xi p \cos \gamma = \eta$$
 
$$p > 0$$
 
$$Q = P - \gamma.$$

folgt, also

Um die Zeit der größten Phase,  $T_{\max}$ , zu erhalten, hat man die beiden Formelsysteme (1) und (2) mit einem Näherungswerte  $T_1$  durchzurechnen, daraus  $T_2 = T_1 - \frac{m\cos{(M-N)}}{n}$  zu entnehmen und die Rechnung so lange fortzusetzen, bis die Korrektion der Ausgangszeit owird. Als Näherungswert  $T_1$  wählt man zweckmäßig das Mittel der beiden Werte von  $T_2$  für die Berührungszeiten.

¹) Wird der Winkel  $\psi$  bei der ersten Näherungsrechnung imaginär, so rechne man  $\tau$  unter der Annahme  $\psi = 90^{\circ}$  aus  $\tau = -\frac{m\cos{(M-N)}}{n}$ ; bleibt  $\psi$  auch in der weiteren Rechnung imaginär, so deutet dies an, daß an dem betreffenden Orte keine Sonnenfinsternis stattfindet.

Die Größe der Verfinsterung i, in Teilen des Sonnendurchmessers ausgedrückt, ergibt sich dann aus:

$$i = \frac{L^{(a)} - m}{2 L^{(a)} - 0.5459}$$

worin  $L^{(a)}$  und m die zur Zeit  $T_{\text{max}}$  gehörigen Werte bedeuten.

## Mondbewegung und Lage des Mondäquators gegen den Erdäquator (S. 297\*)

Auf S. 297\* finden sich:

O, Aufsteigender Knoten der Mondbahn auf der Ekliptik,

 $L_{\mathbb{Q}}$ , Mittlere Länge des Mondes,

 $\tilde{\omega}_{\mathbb{C}}$ , Mittlere Länge des Perigäums,

 $M_{\mathbb{C}}$ , Mittlere Anomalie des Mondes,

i, Neigung des Mondäquators gegen den Erdäquator,

△, Stück des Mondäquators zwischen Ekliptik und Erdäquator, \*

♂, Aufsteigender Knoten des Mondäquators auf dem Erdäquator.
♂, der aufsteigende Knoten des Mondäquators auf der Ekliptik ist gleich dem absteigenden Knoten der Mondbahn, also

$$99 = 00 \pm 180^{\circ}$$

Vom Jahrgang 1926 ab sind die Brownschen Mondtafeln verwendet.

Die Größen i, \( \Delta \) und \( \Omega' \) berechnen sich aus:

$$\sin \frac{1}{2} (\Delta + \Omega') \cos \frac{1}{2} i = \cos \frac{1}{2} (\varepsilon - J) \sin \frac{1}{2} \circ \cos \frac{1}{2} (\Delta + \Omega') \cos \frac{1}{2} i = \cos \frac{1}{2} (\varepsilon + J) \cos \frac{1}{2} \circ \sin \frac{1}{2} (\Delta - \Omega') \sin \frac{1}{2} i = \sin \frac{1}{2} (\varepsilon - J) \sin \frac{1}{2} \circ \cos \frac{1}{2} (\Delta - \Omega') \sin \frac{1}{2} i = \sin \frac{1}{2} (\varepsilon + J) \cos \frac{1}{2} \circ \cos \frac{$$

dabei ist J, die Neigung des Mondäquators gegen die Ekliptik, nach F. Ha yn (Astr. Nachr. Bd. 199 S. 263) zu  $J=1^{\circ}$  32′ 20″ angenommen worden. Die Zahlen geben die Lage des mittleren Mondäquators (ohne physische Libration).

Die auf S. 297\* gemachten Angaben über die Elemente der Mondbahn und des Mondäquators werden, teilweise in Verbindung mit den Größen  $L_{\bigcirc}$  und  $M_{\bigcirc}$  auf S. 29, zu verschiedenen Zwecken verwendet:

- ı) Als Argumente, für die Berechnung der Reduktionsgrößen A, B, C, D, E, A', B'.
- 2) Bei Bestimmung der selenographischen Koordinaten von Punkten der Mondoberfläche.
  - 3) Bei Berechnung der optischen und physischen Libration des Mondes.
- a) Für die Berechnung der optischen Libration des Mondes sind alle nötigen Angaben in den Erläuterungen zu den Hilfstafeln unter Nr. 9 (S. 399\*) gemacht.

b) Die Beträge der *physischen* Mondlibration in selenographischer Länge, der Neigung des Mondäquators und seinem aufsteigenden Knoten auf der Ekliptik  $\tau$ ,  $\rho$ ,  $\sigma$  haben die Werte:

$$\tau = -13'' \sin M_{\text{c}} + 65'' \sin M_{\text{c}} + 26'' \sin 2 (L_{\text{c}} - M_{\text{c}} - C_{\text{c}})$$

$$\rho = -106'' \cos M_{\text{c}} + 34'' \cos (2 L_{\text{c}} - M_{\text{c}} - 2C_{\text{c}}) - 11'' \cos 2 (L_{\text{c}} - C_{\text{c}})$$

$$\sigma \sin J = -108'' \sin M_{\text{c}} + 34'' \sin (2 L_{\text{c}} - M_{\text{c}} - 2C_{\text{c}}) - 11'' \sin 2 (L_{\text{c}} - C_{\text{c}})$$

Diese Zahlenangaben beruhen auf der Annahme f = 0.73, worüber F. Hayn (Astr. Nachr. Bd. 199, S. 264) einzusehen ist.

## Jupitertrabanten (S. 298\*-299\*).

Die Seiten 298\* und 299\* enthalten die Zeitangaben (in Weltzeit) für die Verfinsterungen der vier hellen Jupitertrabanten in dem Schattenkegel des Jupiter; Ein- und Austritte sind durch beigefügtes E. und A. unterschieden.

## Saturnsring (S. 300\*-301\*, 304\*).

Die Angaben für die scheinbare Größe des Saturn und für die Lage und Größe des Saturnsringes haben die folgende Bedeutung:

- a Große Achse des Saturn.
- β Kleine Achse des Saturn.
- $p_a$  Phase; positiv, wenn der Ostrand, negativ, wenn der Westrand verdunkelt ist.
- a Große Achse der Ringellipse.
- b Kleine Achse der Ringellipse; positiv, wenn die nördliche, negativ, wenn die südliche Fläche des Ringes sichtbar ist.
- U' Heliozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes in der Ekliptik an.
- B' Erhöhungswinkel der Sonne über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.
- P' Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Längenkreise; östlich positiv, westlich negativ.
- U Geozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes im Erdäquator an.
- B Erhöhungswinkel der Erde über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.
- P Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Stundenkreise; östlich positiv, westlich negativ.
- N Aufsteigender Knoten der Ringebene im Erdäquator, gezählt vom Äquinoktium an.
- J Neigung der Ringebene gegen den Erdäquator.
- ω Entfernung der Ekliptik vom Erdäquator, gemessen auf der Ringebene,

Es liegen folgende Bestimmungen nach H. Struve zugrunde:

Durchmesser des Saturn in der Entfernung 9.53887

Äquatorial 17"47 Polar 15"65

Durchmesser des Ringes in der Entfernung 9.53887

$$2 R = 39.35$$

Lage des Saturnsringes gegen die Ekliptik und das Äquinoktium von 1889.25 nach G. Struve

$$\Omega_1 = 167^{\circ} 58' 08 \text{ und } i_1 = 28^{\circ} 4'.55$$

## Saturnstrabanten (S. 302\*-311\*).

Die Berechnungen der Saturnstrabanten Mimas bis Rhea sind mit den von G. Struve in den Veröffentlichungen der Universitätssternwarte Berlin-Babelsberg, Bd. VI, Heft 4 abgeleiteten Elementen durchgeführt worden. Für Titan und Japetus sind die von ihm in Bd. VI, Heft 5 angegebenen Elemente benutzt worden, und für Hyperion haben die von J. Woltjer in den Annalen der Sternwarte Leiden, Bd. 16, Teil 3 bestimmten Elemente als Grundlage gedient.

Die den Ephemeriden zugrunde liegenden Elemente sind:

MIMAS (Berlin-Bbg. VI, Heft 4) Epoche: 1889 April o.o Mittl. Zt. Grw.

 $E_0 = 127^{\circ} 5.5$  n = 381.994442  $\delta l = -44.390 \sin [5.0864 (\tau - 1866.27)]$   $-0.764 \sin 3 [5.0864 (\tau - 1866.27)]$   $l_1 = E_0 + nt_d + \delta l$   $\Theta = 56.1 - 365.23 t$   $\gamma = 1^{\circ} 31.0$   $\Pi_1 = 105.0 + 365.60 t$ e = 0.0201

ENCELADUS (Berlin-Bbg. VI, Heft 4) Epoche: 1889 April o.o Mittl. Zt. Grw.

 $E_0 = 199^{\circ} 25.8$  n = 262.7319405  $\delta l = + 14.39 \sin (63.75 + 32.51 t)$   $+ 14.06 \sin (117.28 + 93.14 t)$   $l_1 = E_0 + nt_d + \delta l$   $\Theta = 51.81 - 152.7 t$   $\gamma = 1.4$   $H_1 = 308.38 + 123.43 t$  e = 0.00444a = 34.416

a = 26''826

TETHYS (Berlin-Bbg. VI, Heft 4) Epoche: 1889 April 0.0 Mittl. Zt. Grw.

 $E_0 = 284^{\circ} 28.3$  n = 190.697950  $\delta l = + 2.065 \text{ sin } [5.0864 (\tau - 1866.27)]$   $+ 0.036 \text{ sin } 3 [5.0864 (\tau - 1866.27)]$   $l_1 = E_0 + nt_d + \delta l$   $\Theta = 110.39 - 72.25 t$   $\gamma = 1^{\circ} 5.56$  e = 0.0000a = 42.605

> DIONE (Berlin-Bbg. VI, Heft 4) Epoche: 1889 April o.o Mittl. Zt. Grw.

 $E_0 = 253^{\circ} 52'.0$  n = 131°.5349729  $\delta l = -0'.93 \sin(63°.75 + 32°.51 t)$   $+0'.91 \sin(117°.28 + 93°.14 t)$   $l_1 = E_0 + nt_d + \delta l$   $\theta = 201°.0 - 31°.0 t$   $\gamma = 1'.4$   $H_1 = 173°.4 + 30°.75 t$  e = 0.00221a = 54".567

> RHEA (Berlin-Bbg. VI, Heft 4) Epoche: 1889 April o.o Mittl. Zt. Grw.

 $E_0 = 358^{\circ} 23.7$  n = 79.6900881 $l = E_0 + nt_d$ 

 $(\bigcirc -\bigcirc 1) \sin i_1 = 20.49 \sin (344.09 - 10.20 t) -0.38 + 1.00 \sin (48.5 - 0.50 t)$   $i - i_1 = 20.49 \cos (344.09 - 10.20 t) -2.79 + 1.00 \cos (48.5 - 0.50 t)$   $II = 275.85 + 0.53 t + 17.64 \sin [9.5 (\tau - 1879.59)]$   $e = 0.00098 + 0.00030 \cos [9.5 (\tau - 1879.59)]$  a = 76.203

 $\mathcal{O}_1$  und  $i_1$  bezeichnen die Lage des Saturnsringes.

TITAN (Berlin-Bbg. VI, Heft 5) Epoche: 1890 Jan. o.o Mittl. Zt. Grw.

 $E_0 = 260^{\circ} 24.26$ n = 22.577015

$$l = E_0 + nt_d + (E - E_0)$$

$$E - E_0 = + 4'.39 \sin (40.69 - 0.506 t)$$

$$Q = 167^{\circ} 51'.90 + 39'.00 \sin (40.69 - 0.506 t)$$

$$i = 27^{\circ} 26'.33 + 18'.35 \cos (40.69 - 0.506 t)$$

$$II = 276^{\circ} 7'.7 + 31'.41 t + 22'.0 (\sin 2g - \sin 2g_0)$$

$$e = 0.02910 + 0.000186 (\cos 2g_0 - \cos 2g)$$

$$g = II - Q - 4.5$$

$$g_0 = g \text{ für } t = 0$$

$$a = 176''.578$$

HYPERION (J. Woltjer, Ann. Sternwarte Leiden Bd. XVI, 3, S. 64) Anfangsepoche für  $t_d$ ; 1900 Januar o.o Mittl. Zt. Grw.

Argumente:  $\sigma = 93.13 + 0.562039 t_d$   $\tilde{\omega} = 148.72 - 19.184 t$ 

 $n = 16^{\circ}9199896$ 

 $l = 176.293 + 16.9199896 t_d + 9.092 \sin \sigma + 0.211 \sin (\tilde{\omega} + \sigma) + 0.192 \sin (\tilde{\omega} - \sigma) - 0.077 \sin \tilde{\omega}$ 

II =  $70.05 - 18.6562t - 13.67 \sin \tilde{\omega} + 0.93 \sin 2 \tilde{\omega} - 0.47 \sin \sigma$ 

 $e = 0.10419 + 0.02414 \cos \tilde{\omega} - 0.00401 \cos \sigma - 0.00183 \cos 2 \tilde{\omega} + 0.00009 \cos (\tilde{\omega} - \sigma) - 0.00009 \cos (\tilde{\omega} + \sigma)$ 

 $a = 214''32 - 0''74 \cos \sigma$ 

 $\gamma \sin h = -0.061 + 0.574 \sin [-2.392 t + 95.9]$ 

 $+ 0.315 \sin [-0.500 t + 42.78]$ 

 $\gamma \cos h = -0.747 + 0.574 \cos \left[-2.392 t + 95.9\right] + 0.315 \cos \left[-0.500 t + 42.78\right]$ 

γ = Neigung der Bahnebene gegen den Saturnsäquator,

h = Länge des aufsteigenden Knotens auf dem Saturnsäquator, gezählt vom aufsteigenden Knoten des Saturnsäquators auf der Ekliptik.

> JAPETUS (Berlin-Bbg. VI, Heft 5) Epoche: 1885 Sept. 1.0 Mittl. Zt. Grw.

$$E_0 = 75^{\circ} 25'.61$$
  $i = 18^{\circ} 26'.39 - 0'.54 t$   
 $n = 4^{\circ}.537995$   $II = 354^{\circ} 27'.4 + 8'.1 t$   
 $l = E_0 + nt_d$   $e = 0.02828$   
 $l = 142^{\circ} 11'.3 - 1'.375 t$   $e = 514''.59$ 

#### Hierin bedeuten:

li, l = Mittlere Länge in der Bahn

n = Tropische mittlere tägliche Bewegung

 $\delta l = Libration$ 

 $\tau = Epoche$ 

 $t_d$  = Anzahl der Tage seit der Anfangsepoche

t = Anzahl der Jahre seit der Anfangsepoche

 $\Theta =$  Knoten auf dem Saturnsäquator

S = Knoten auf der Ekliptik

γ = Neigung der Trabantenbahn gegen den Saturnsäquator

i = Neigung der Trabantenbahn gegen die Ekliptik

II, II = Perisaturnium

e = Exzentrizität

a = Halbachse der Trabantenbahn in der mittleren Entfernung  $(\Delta) = 9.53887.$ 

 $l_1$ , II<sub>1</sub> und  $\Theta$  werden gezählt vom Äquinoktium aus in der Ekliptik weiter im Saturnsäquator und dann erst in der Trabantenbahn, l und II vom Äquinoktium aus in der Ekliptik und weiter in der Trabantenbahn.

Auf den Seiten 302\*-304\* sind die Hilfsmittel gegeben, um in bequemer Weise die Positionen der Trabanten ableiten zu können. Sieht man hierbei von der Neigung  $\gamma$  ab, so erhält man die rechtwinkligen Koordinaten x und y des Trabanten in bezug auf ein Achsenkreuz, dessen Anfangspunkt im Mittelpunkt des Saturn gelegen ist, dessen X-Achse parallel der großen Achse des Ringes verläuft, positiv, wenn östlich, negativ, wenn westlich vom Saturn, und dessen positive Y-Achse mit dem durch den Saturnsmittelpunkt gehenden Stundenkreise den Winkel P einschließt, aus den Gleichungen:

$$x = \frac{a(\Delta)}{\Delta} \frac{1}{1+\zeta} \frac{r}{a} \sin (u-U)$$
$$y = \frac{a(\Delta)}{\Delta} \frac{1}{1+\zeta} \frac{r}{a} \sin B \cos (u-U).$$

 $(\Delta)=9.53887$  bezeichnet den mittleren Wert der Entfernung Sonne—Saturn,  $\Delta$  ist die Entfernung Erde—Saturn, u=L+(v-M) ist die wahre Länge des Trabanten vom Erdäquator an gezählt.

Die Größen v-M und  $\log \frac{r}{a}$  sind auf S. 312\*-313\* des Jahrbuchs 1933 gegeben,  $\log \frac{1}{1+\zeta}$  ist auf S. 304\* enthalten.

Ist genaueste Ortsbestimmung erforderlich, so darf man bei Mimas, Tethys und Rhea die Neigungen gegen den Saturnsäquator, da sie schon merklichere Werte annehmen, nicht mehr vernachlässigen; x und y ergeben sieh dann aus:

$$x = \frac{a(\Delta)}{\Delta} \frac{1}{1+\zeta} \frac{r}{a} \sin (u - U)$$

$$y = \frac{a(\Delta)}{\Delta} \frac{1}{1+\zeta} \frac{r}{a} \sin B \left[\cos (u - U) + \sin \gamma \cot B \sin (u - \theta)\right].$$

Die Werte von θ, der Länge des aufsteigenden Knotens der Trabantenbahn auf dem Saturnsäquator, gezählt vom Schnittpunkte des Saturnsäquators mit dem Erdäquator, finden sich für die fünf inneren Trabanten auf S. 304\*; auch ist hier für Rhea γ, weil stärker mit der Zeit veränderlich, in Intervallen von 16 Tagen gegeben. Will man aus x und y die Rektaszensions- und Deklinationsdifferenzen bestimmen, so dienen dazu die Gleichungen:

$$s \sin (p - P) = x$$

$$s \cos (p - P) = y$$

$$\Delta \alpha = \alpha_{tr} - \alpha_{pl} = \frac{1}{15} s \sin p \sec \delta_{tr}$$

$$\Delta \delta = \delta_{tr} - \delta_{pl} = s \cos p.$$

Auf den Seiten 305\*-307\* finden sich, außer den Hilfsgrößen *U*, *B* und *P* für die Trabanten Titan, Hyperion und Japetus die genäherten Rektaszensions- und Deklinationsunterschiede gegen den Saturn in dem Sinne Trabant minus Planet für die beiden letzteren Trabanten.

Die aus den Angaben des Berliner Jahrbuchs ermittelten Trabantenörter sind auf das mittlere Äquinoktium der Epoche bezogen.

Zum Schluß enthalten die Seiten 308\*-311\* die Zeitangaben (in Weltzeit) für die östlichen Elongationen von Mimas, Enceladus, Tethys, Dione, Rhea, ferner für die östlichen und westlichen Elongationen  $(u-U=\pm 90^\circ)$  und für die oberen und unteren Konjunktionen  $(u-U=0^\circ, 180^\circ)$  von Titan, Hyperion und Japetus mit Saturn; diese Zeitangaben für die Elongationen und Konjunktionen sind bereits für Lichtzeit korrigiert, also ohne weiteres mit den Beobachtungen vergleichbar.

#### Konstellationen (S. 312\*-313\*).

In der Übersicht der Konstellationen des Jahres 1947 sind die hauptsächlichsten Planeten-Konstellationen gegeneinander und gegen Sonne und Mond, sowie die Angaben der Epochen, zu welchen sich die Planeten in gewissen Hauptpunkten ihrer Bahn und ihres synodischen Laufes befinden, zusammengestellt. Die Bedeutung der hier verwendeten Zeichen siehe Seite VIII des Vorworts. — Die Konjunktionen der Planeten mit dem Mond und ihre gegenseitigen sind als Konjunktionen in AR. zu verstehen, ebenso entsprechen die Angaben über Konjunktion und Opposition der Planeten mit der Sonne den Zeiten, zu denen der Rektaszensionsunterschied zwischen Planet und Sonne o° oder 180° ist.

# Auf- und Untergangszeiten der Sonne und des Mondes (S. 314\*-349\*)

Die für Orte auf dem Meridian von Greenwich und ausgewählte geographische Breiten zwischen —10° und +60° gegebenen mittleren Ortszeiten der Auf- und Untergänge von Sonne und Mond beziehen sich auf das Erscheinen bzw. Verschwinden des oberen Randes der Sonne oder des Mondes und sind mit der Horizontalrefraktion 34.0 berechnet.

## Hilfstafeln (S. 350\*-373\*).

Es folgt eine Reihe von häufig gebrauchten Hilfstafeln.

- 1) Tafeln für Präzessionswerte (S. 350\*-352\*).
  - a) Präzession in Länge und Breite (Seite 350\*-351\*).

$$p_{\lambda} = \psi + \pi \operatorname{tg} \beta \cos (\Pi - \lambda)$$
  
 $p_{\beta} = \pi \sin (\Pi - \lambda)$ 

b) Präzession in Rektaszension und Deklination (Seite 352\*).

$$p_{\alpha} = m + \frac{1}{15} n \sin \alpha \operatorname{tg} \delta$$

$$p_{\delta} = n \cos \alpha$$

c) Präzessionswerte m, n,  $\psi$ ,  $\pi$ , II und  $\varepsilon$ , die mittlere Schiefe der Ekliptik (Seite 352\*).

Mit diesen Werten berechnet sich die Präzession für die Elemente einer Bahnebene im System der Ekliptik nach:

$$p_{\Omega} = \psi - \pi \cot i \sin (\Pi - \Omega)$$

$$p_i = -\pi \cos (\Pi - \Omega)$$

$$p_{\omega} = \pi \csc i \sin (\Pi - \Omega)$$

und im System des Aquators nach:

$$p_{\Omega'} = m - n \cot i' \cos \Omega'$$
  
 $p_{i'} = -n \sin \Omega'$   
 $p_{\omega'} = n \cos \Omega' \csc i'$ 

Den Tafeln a) und b) liegen die Präzessionswerte für 1950.0 zugrunde. Über die Bedeutung der Bezeichnungen und die Zahlenwerte vergleiche die Erläuterungen zum Jahrbuch für 1916

- 2) Eine Tafel zur Verwandlung von Minuten und Sekunden in Dezimalteile des Grades und umgekehrt (S. 353\*).
- 3) Hilfstafeln zur Verwandlung von mittlerer Zeit in Sternzeit (S. 354\*, 356\*) und von Sternzeit in mittlere Zeit (S. 355\*, 357\*).
- 4) Eine Tafel zur Verwandlung von Stünden, Minuten und Sekunden in Dezimalteile des Tages und umgekehrt (S. 358\*-359\*).
- 5) Eine Tafel für die Ermittelung eines Datums in der Julianischen er hen Periode (Seite 360\*-364\*). Die Tafel besteht aus zwei Teilen. Der erste Teil (S. 360\*-361\*) gibt in vierjährigen Schaltperioden für die Jahre obis 2000 die Anzahl der am o. Januar, 12h Weltzeit, seit Anfang der Julianischen Periode verflossenen Tage. Als Ergänzung gibt die Hilfstafel am Fuß der Seite die Anzahl der am o. eines jeden Monats, 12h Weltzeit, seit Beginn der Schaltperiode verflossenen Tage. Man gehe bis zum 4. Oktober des Jahres 1582 mit dem Datum des Julianischen, für spätere Jahre mit dem Datum des Gregorianischen Kalenders in die Tafel ein. Der zweite Teil (S. 362\*-364\*) gibt für die Jahre 1860-1979 unmittelbar die Anzahl der im Gregorianischen Kalender am o. eines jeden Monats, 12h Weltzeit, seit Beginn der Julianischen Periode verflossenen Tage.

6) Eine Tafel der Hilfsgrößen s und c (S. 365\*) zur Berechnung der geozentrischen Breite  $\varphi'$  und der geozentrischen Entfernung  $\rho$  eines Erdortes, ausgedrückt in Einheiten der großen Halbachse des Erdellipsoids, aus der geographischen Breite  $\varphi$  nach den Formeln:

$$\varrho \sin \varphi' = s \sin \varphi$$

$$\varrho \cos \varphi' = c \cos \varphi$$

Darin haben s und c die Bedeutung:

$$s = \frac{{\rm i} - e^2}{\sqrt{{\rm i} - e^2 \sin^2 \phi}}, \quad c = \frac{{\rm i}}{\sqrt{{\rm i} - e^2 \sin^2 \phi}}, \quad e = \sqrt{{\rm i} \, {\rm a} - {\rm a}^2}.$$

Gemäß den Beschlüssen der Pariser Ephemeridenkonferenz von 1911 ist dabei die Abplattung  $\mathfrak{a} = \frac{1}{207}$  angenommen.

- 7) Tafeldes halben Tagbogens (S. 366\*-367\*), berechnet mit der Horizontalrefraktion 34'9 für geographische Breiten von +30° bis +60° und Deklinationen von -30° bis +30°.
- 8) Reduktionstafeln für die Auf- und Untergangszeiten der Sonne und des Mondes (S. 368\* bis 371\*). Sie geben die Reduktion der für +50° Breite gültigen Zeiten, wie sie in den Ephemeriden auf S. 3—19 bzw. S. 31—47 enthalten sind, auf geographische Breiten zwischen +30° und +60° und sind für das Erscheinen oder Verschwinden des oberen Gestirnsrandes gerechnet.
- 9) Die Tafel zur Berechnung der optischen Mondlibration (S. 372\*-373\*) gibt mit dem Argument  $\lambda \Omega$  die Werte  $\Delta\lambda$ , a und B entsprechend den Gleichungen:

$$\Delta \lambda = \frac{1}{\text{arc } 1'} \tan^2 \frac{1}{2} J \sin 2 (\lambda - \Omega)$$

$$a = -\cos (\lambda - \Omega) \sin J$$

$$\tan B = -\sin (\lambda - \Omega) \tan J$$

J = Neigung des Mondaquators gegen die Ekliptik.

 $\lambda$ ,  $\beta$  = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort.

Bezeichnen noch  $L_{\mathbb{Q}}$  die mittlere Länge des Mondes, l' und b' die optische Libration der Mondmitte in selenographischer Länge und Breite, so ist:

$$l' = \lambda - L_{\emptyset} + \Delta \lambda - a (B - \beta)$$
  
$$b' = B - \beta$$

Der Winkel C, welchen der Mondmeridian des Mittelpunktes der scheinbaren Mondscheibe mit dem Stundenkreise bildet, ergibt sich aus der Gleichung:

$$\sin C = -\sin i \frac{\cos (L_{\ell} + l' + \Delta - \emptyset)}{\cos \delta_{\ell}} = -\sin i \frac{\cos (\alpha_{\ell} - \Omega')}{\cos b'},$$

worin  $\alpha_{\mathbb{Q}}$ ,  $\delta_{\mathbb{Q}}$  Rektaszension und Deklination des Mondmittelpunktes gesehen vom Beobachtungsort aus, bezeichnen; die anderen vorkommenden Größen i,  $\Delta$ ,  $\mathfrak{G}$  und  $\mathfrak{G}'$  haben schon auf S. 391\* ihre Erklärung gefunden.

## Koordinaten der Sternwarten (S. 374\*-380\*).

Die Seiten 374\* -380\* enthalten die geographischen und geozentrischen Koordinaten der Sternwarten.

Die Seehöhen sind in allen Fällen angegeben, wo sie sich

einigermaßen sicher ermitteln ließen.

Die geographischen Längen sind auf den Meridian von Greenwich bezogen und dem entsprechend ist die »Korrektion der Sternzeit « die Differenz: Orts-Sternzeit in mittlerer Mitternacht minus Greenwicher Sternzeit in mittlerer Mitternacht.

Die geozentrischen Koordinaten sind den Beschlüssen der Pariser Ephemeridenkonferenz vom Oktober 1911 gemäß unter Annahme der Abplattung 1: 297 berechnet.

Bei Berechnung von  $\log \varrho$  ist die Seehöhe berücksichtigt.

## Normalzeiten der wichtigeren Länder (S. 381\*).

Auf S. 381\* sind die in den wichtigeren Ländern eingeführten Normalzeiten zusammengestellt.

## Berichtigungen.

Jahrbuch 1947, S. 89\*, Stern 307) 27 Lyncis. Die Rektaszensionen sind um folgende Beträge zu verbessern:

```
Von 1947 Jan. 1 bis Febr. 19 um +0.003
,, März 1 ,, Juli 19 ,, +0.004
,, Juli 29 ,, Okt. 17 ,, +0.005
,, Okt. 27 ,, Dez. 36 ,, +0.006
```

Die ersten Differenzen sind entsprechend zu ändern.

S. 184\*, Rektaszension von a Ursae minoris:

```
1947 April 1 statt 23.98 lies 23.97
2 ,, 23.71 ,, 23.68
3 ,, 23.46 ,, 23.41
4 ,, 23.24 ,, 23.16
5 ,, 23.04 ,, 22.95
6 ,, 22.83 ,, 22.75
7 ,, 22.63 ,, 22.58
8 ,, 22.46 ,, 22.43
9 ,, 22.32 ,, 22.30
```

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